Memo
FROM THE DESK OF THE ZONING ADMINISTRATOR

To: Planning Commission
Date: 10/14/2011
Re: 10/19/11 Notes

Old Business

HOM 1536 – Questions from last meeting:

- What are the environmental regulations?
  - Environmental regulations are contained in many statutes too numerous to quote, however, the building code has requirements for special storage requirements based on type of material. Mr. Bork has supplied Material Safety Data Sheets for the materials he will be using. It would be my recommendation that the building inspector review the materials and quantities at the time a building permit is issued for the pole barn housing the use. He has agreed to do this. At that time any requirements for storage will be enforced. A review for the pole barn will not come before you.

- Is there an environmental / hazardous waste spill manual?
  - Material Safety Data Sheets are provided in the online packet.

- Is this request consistent with the zoning in a rural area?
  - Yes. One person operations are common in the rural areas and include contractors, beauty salons, and professional offices. In general, uses that have a low impact as far as clientele and or employees are appropriate. Included is an article by Eric Schindler of Wexford County indicating Home Occupations should be encouraged in the New Economy, and approved lacking any cogent reasons to deny.

- Do metal shavings need to be kept inside or covered up?
  - I don’t think so, they will be recycled as scrap, unless it creates an unsightly conditions.

- What is the history of other properties in the rural area (referring to other businesses in the area)?
  - It is appropriate to consider what uses are allowed in general, but I do not want to allow thinking that there are areas appropriate or inappropriate for Home Occupations, they need to be considered on a case by case basis throughout the township.
This is a good candidate for a Home Occupation as the use will not cause undue traffic at the home, and the environmental impacts for a small operation are no more dangerous than a 5 gallon can of gas or other auto related materials. The review by the building official should satisfy any issues about quantities of these materials. We also need to develop discernment for when an objection is valid, or simply a case of Not In My Back Yard (NIMBYs). The psychology here is “I’m not sure what this about so the safest thing is to object.” The problem with this is one person’s income is at stake, the other has nothing to gain, so why not object. Mr. Bork also contacted neighbors who were not at the meeting but were reported as having an objection and asserts these people did not object.

New Business
REZ 1537 – R2A to R3A. This request has a Fraternity House in mind. The applicant has submitted preliminary plans to give a flavor of their intentions. We are not approving the plan at this point.

Master Plan Considerations: The Future Land Use designation is A3. This class is first to be developed. The plan does not give specific direction for this type of use, only that it meets the test for Smart Growth and avoids premature conversion of farmland.

Issues are distance from other homes, screening, and need. The proposed site has similar uses in the vicinity on Deerfield Road. It is located in the vicinity of CMU campus and is a logical location to serve a campus use. Will the new zoning uses be an unreasonable infringement of the character of the neighborhood and surrounding properties. Can the proximity be mitigated be distance and screening? The property in question has reverted to the county for back taxes and has a structure that is in bad condition. As an asset to the township, the clean up and restoration of taxable property is a benefit. This proposal comes down to will be fitting in this location. I believe it is of sufficient distance to not be an immediate problem. The project will come back to us for a special use permit and site plan review, at that time we would seek mitigation by fencing or landscaping. We want to be sure that these options will be available, but the details of them would not be appropriate at this point. It is also noteworthy that it is the reasonableness of objections to a project, not the number of objectors or their emotive content.
Date: October 19, 2011
Time: 7:00 p.m.
Place: Union Township Hall

Pledge of Allegiance

Roll Call

Minutes of September 21, 2011 regular meeting

Correspondence

Approval of Agenda

Public Comment: restricted to three (3) minutes regarding issues not on this agenda

NEW BUSINESS
1.) HOM 1536 – Home Occupation Permit for a Machine Shop at 1141 E River Road
2.) REZ 1527 – Re-zoning of property from R2A (One and Two Family Residential) to R3A (Multi-Family High Density) to allow for a Fraternity House

Other Business

Extended Public Comment

Adjournment
A regular meeting of the Charter Township of Union Planning Commission was held on September 21, 2011.

Meeting was called to order at 7:00 p.m.

Roll Call
Dinse, Henley, Primeau, Shingles, Squattrito, Jankens, Fuller, Mielke were present. Wagner was excused.

Others Present
None

Approval of Minutes
August 17, 2011 – regular meeting minutes
Change spelling error of Dinse’s name
Primeau moved Shingles supported to approve the August 17, 2011 meeting minutes as amended. Ayes: all. Motion carried.

Correspondence
No correspondence were offered

Approval of Agenda
Dinse moved Mielke supported to approve the amended agenda. Ayes: All. Motion carried.

Public Comment
No comments were offered

NEW BUSINESS
1.) TXT 1518 – Redo Public Hearing for proposed ordinance for Garage Sales
Hearing needed to be re-recommended to the Board of Trustees due to incorrect wording of the Hearing.

Public Comment
None

Primeau motioned to re-recommend the Notice of Adoption regarding the Ordinance for Garage Sales to the Board of Trustee’s. Jankens supported. Ayes: All. Motion carried.

2.) SPR 1525 – Site Plan Review for Aldi Food Market
Christian Village from SPD Engineer’s showed the plans for Aldi Food Market that is projected to move in next to Menard’s.

Fuller motioned to approve with compliance with Fire Department review and improvements made on the sidewalks. Mielke supported. Ayes: All. Motion carried.
3.) **HOM 1536 – Home Occupation Permit for a Machine Shop at 1141 E River Road**
Joseph Bork, the property owner requested a Home Occupation Permit to open a Machine Shop in his pole barn on his property where he intends to do repair work on machinery.

**Dinse** motioned to approve. **Shingles** supported.

**Public Comment**
David Sembach of 1030 E River Rd expressed concern regarding environmental issues and property value decline.
Neal Hauck of 1050 E River Rd expressed concern regarding environmental issues due to the high ground water in the neighborhood.

**Dinse** withdrew his motion of approval until next meeting pending questions answered by **Woodruff**. **Shingles** withdrew his support. HOM 1536 will be put on next month’s agenda.

Questions include:
- What are the environmental regulations?
- Is there an environmental / hazardous waste spill manual?
- Is this request consistent with the zoning in a rural area?
- Do metal shavings need to be kept inside or covered up?
- What is the history of other properties in the rural area (referring to other businesses in the area)?

**OTHER BUSINESS**
None

**Extended Public Comment**
- Neal Hauck addressed the committee in support of the decision to approve the Aldi Food Market.

**Adjournment**
The Chair adjourned the meeting at 8:28 p.m.

**APPROVED BY:**

________________________________________
Alex Fuller, Secretary

*(Recorded by Kathy Lee)*
APPLICATION FOR ZONING CHANGE
CHARTER TOWNSHIP OF UNION
ISABELLA COUNTY, MICHIGAN

APPLICATION NO. 1587 DATE 9/22/11

A. I (WE) Kyle De Mars of the chapter of Phi. Sigma Phi

Address: 1004 S. Main St; Mt. Pleasant MI 48858

Phone: 912 285 9431

Hereby file an application with the Township Clerk's office to:

1. ___ Add to or change the text of the Zoning Ordinance.
2. ___ Change the district boundaries.
3. ___ Re-zone the property from ___ zoning classification
    to ___ zoning classification.

B. If this application is for a text amendment, please describe in detail what you
   would like to change. Give section numbers and proposed changes, standards,
   and procedures.
   
   not applicable

C. If this application is for the re-zoning of property, please provide a complete
   legal description.
   T14N R4W SEC 28: N 250 FT OF S 650 FT OF E 350
   FT OF S 70 ACRES OF SE 1/4, SEC 28
   SPLIT FOR 2004 FROM 40-002-00 TO 40-002-01 (RE-
   MAINDER) + 40-002-02 (HOUSE) + 40-002-03 (SW COR)

D. If this application is for re-zoning, please provide a complete common
   description (address, cross roads, etc.).
   Parcel Number: 14-028-40-002-02
   4930 S CRAWFORD RD
   Union Township
   Isabella County
E. Please provide reason(s) for requesting text amendment or zoning change and include intended use of any land, buildings, or structures.

Phi Sigma Phi intends to build a single modern building to be used as housing for 12 to 20 members, as well as a meeting place for the Fraternity. The plan includes adequate parking for residents and guests, and a privacy fence surrounding the property.

F. Please provide a site plan for any property to be re-zoned following the requirements outlined in Section 12 of the Charter Township of Union Zoning Ordinance 1991-5. (Attach)

G. List names and addresses of property owners lying within 300 feet of the property to be re-zoned. (Use separate sheet.) (Two will provide this)

H. List all or any easements or right-of-ways that have been granted said properties herein described.

CERTIFICATION:
I (WE) hereby certify that the above information is accurate and assume responsibility for any error.

SIGNED:  

Applicant  

Date  

Applicant  

Date  

Applicant  

Date  

FOR OFFICE USE ONLY

Date application referred to Planning Commission  

Date public hearing notice published  

Date public hearing notice mailed  

Planning Commission Action:  Adopted  Denied. Date:  

Date referred to County Planning Commission  

Township Board Action:  Adopted  Denied. Date:  

Remarks:  

FEE  

RECEIPT NO.  

SHOME FORMS AND HANDOUTS/PUBLIC FORMS
UNION TOWNSHIP PUBLIC HEARING NOTICE - REZONING

NOTICE is hereby given that a Public Hearing will be held on Wednesday, October 19, 2011 at 7:00 PM at the Union Township Hall located at 2010 South Lincoln Road, Mt. Pleasant, Michigan, before the Union Township Planning Commission for the purpose of hearing any interested persons in the following rezoning of property from R2A (One and Two Family Residential) to R3A (Apartments and Condominiums):

Legal description of this rezoning is: T14N R4W, SEC 28; N 250 FT OF S 650 FT OF E 350 FT OF S 90 ACRES OF SE 1/4, SEC 28

This rezoning is commonly described as: 4930 S CRAWFORD RD

All interested persons may submit their views in person, in writing, or by signed proxy prior to the public hearing or at the public hearing.

All materials concerning this request may be seen at the Union Township Hall, located at 2010 S. Lincoln Road, Mt. Pleasant, Michigan, between the hours of 8:30 a.m. and 4:30 p.m., Monday through Friday. Phone (989) 772 4600 extension 241.

William Woodruff,
Zoning Administrator
STATE OF MICHIGAN  
County of Isabella  
County of Gratiot  
County of Clare

Rick Mills being duly sworn, deposes and says that he is Executive Editor of the MORNING SUN, a public newspaper printed and published by Morning Star Publishing Company, in the Cities of Mt. Pleasant (Isabella County), Clare (Clare County) and Alma (Gratiot County) in said counties and circulated in said cities and counties, that the annexed printed notice was duly printed and published in said newspaper at least 1 in each week for 1 successive week(s), and that the first publication of said notice in said newspapers was on the 4th day of October, 2011 and that last publication of said notice in said newspapers was on the 4th day of October, 2011.

Rick Mills

Subscribed and sworn to before me the 5th day of October 2011.

Jan Wick  
Notary Public

My commission expires

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Legal description of this rezoning is: T14N R4W, SEC 28; N 250 FT OF S 650 FT OF E 350 FT OF S 80 ACRES OF SE 1/4, SEC 28
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William Woodruff, Zoning Administrator
<table>
<thead>
<tr>
<th>PID</th>
<th>PropertyAddress</th>
<th>Owner</th>
<th>ZoningCode</th>
<th>OwnerAddress</th>
<th>OwnerCity</th>
<th>OwnerState</th>
<th>OwnerZip</th>
</tr>
</thead>
<tbody>
<tr>
<td>14-149-00-042-00</td>
<td>BILBRAEL DR</td>
<td>TG DEVELOPMENT LLC</td>
<td>R2A</td>
<td>7001 ORCHARD LK RD ST 312</td>
<td>WEST BLOOMFIELD</td>
<td>MI</td>
<td>48322</td>
</tr>
<tr>
<td>14-149-00-043-00</td>
<td>2774 BILBRAEL DR</td>
<td>GASCHO SHANE S &amp; DEBRA K</td>
<td>R2A</td>
<td>2774 BILBRAEL DR</td>
<td>MOUNT PLEASANT</td>
<td>MI</td>
<td>48858</td>
</tr>
<tr>
<td>14-028-40-002-01</td>
<td>S CRAWFORD RD</td>
<td>TG DEVELOPMENT LLC</td>
<td>R2A</td>
<td>7001 ORCHARD LK RD ST 312</td>
<td>WEST BLOOMFIELD</td>
<td>MI</td>
<td>48322</td>
</tr>
<tr>
<td>14-028-40-004-00</td>
<td>4910 S CRAWFORD RD</td>
<td>CROSKEY KYLIE F &amp; CROSKEY</td>
<td>R2A</td>
<td>1056 SWATHER ST SE</td>
<td>GRAND RAPIDS</td>
<td>MI</td>
<td>49508-7453</td>
</tr>
<tr>
<td>14-028-40-002-02</td>
<td>4830 S CRAWFORD RD</td>
<td>ISABELLA COUNTY TREASURER</td>
<td>R2A</td>
<td>200 MAIN STREET</td>
<td>MOUNT PLEASANT</td>
<td>MI</td>
<td>48858</td>
</tr>
<tr>
<td>14-027-30-002-00</td>
<td>4997 S CRAWFORD RD</td>
<td>HAUCK NEAL &amp; KAY, ROGER V</td>
<td>I1</td>
<td>1150 E RIVER RD</td>
<td>MOUNT PLEASANT</td>
<td>MI</td>
<td>48858-0000</td>
</tr>
</tbody>
</table>

R82 1537
Notice of Hearing
Mailed 10/4/2011
Goal: Promote a sustainable community.

- Balance local and regional integrity.
- Link sanitary sewer and municipal water expansion to future land plan.
- Produce and distribute educational materials for residents on how to limit water use outside their homes and how to capture storm water runoff through rain barrels, rain gardens and green roofs.
- Promote and encourage design methods to lessen storm water run-off and pollution, also known as low impact development (LID), by providing educational materials and a list of area contractors skilled in this area.
- Expand locations and types of uses allowed for increased local employment.
- Find partnerships to develop a community-based food system.
- Develop community food profile for the region with partners.
- Create and maintain diverse transportation options.

FUTURE LAND USE PLANS

The future land use plan reflects a balance between employment, services, residential and rural uses. Isabella County’s zoning ordinance approach was used to prioritize lands for future development with three agricultural areas: A1, A2, and A3. These areas were determined using soil conditions, existing development and location of utilities. A1 areas should be the last to be developed, A2 should function as a sort of rural buffer and A3 is land that can be permitted to be developed according to a strict set of rules.

The table below lists each future land use category, and its intended types and stages of development.

The A-1, the preserved agricultural area, is intended to remain agricultural for the life of this Plan. However, the Plan is not intended to prohibit individual lots from being developed as residential in the A-1 district provided they do not require sewer or water. Creating lots outside of
subdivisions is permitted under the Land Division Act although undesirable in the A-1 area when they conflict with agricultural operations.

The A-2 and A-3 categories do not specify the type of land use or zoning that will is permitted, rather the decision to develop is based on location with respect to existing development, available utilities and paved roads. Once these criteria are met, various mixed land use options are available depending on the existing characteristics of the area.

<table>
<thead>
<tr>
<th>Future Land Use Category</th>
<th>Acres</th>
<th>%</th>
<th>Land Use Intent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture A-1</td>
<td>6698.58</td>
<td>37.04%</td>
<td>Preserve integrity and viability of existing agricultural operations</td>
</tr>
<tr>
<td>Agriculture A-2</td>
<td>4613.71</td>
<td>25.51%</td>
<td>Provide additional land for primarily residential uses with some mixed use development, relying on the underlying zoning as a guide. This area should only be developed when it is a logical extension of the developed areas in A-3.</td>
</tr>
<tr>
<td>Agriculture A-3</td>
<td>3381.18</td>
<td>18.70%</td>
<td>Buffer existing agricultural or undeveloped land from new development. Desired uses in this area follow the existing zoning.</td>
</tr>
<tr>
<td>Low Density Residential</td>
<td>1212.97</td>
<td>6.71%</td>
<td>Primarily single family uses with limited mixed neighborhood commercial uses</td>
</tr>
<tr>
<td>High Density Residential</td>
<td>413.709</td>
<td>2.29%</td>
<td>Primarily high density housing with mixed neighborhood commercial uses</td>
</tr>
<tr>
<td>Commercial</td>
<td>1209.3</td>
<td>6.69%</td>
<td>Shopping, office and professional services with mixed residential uses</td>
</tr>
<tr>
<td>Industrial</td>
<td>478.185</td>
<td>2.64%</td>
<td>Areas for factories and research facilities</td>
</tr>
<tr>
<td>Tribal Trust Lands</td>
<td>77.5763</td>
<td>0.43%</td>
<td>Areas that are under the jurisdiction of the Saginaw Chippewa Indian Tribe</td>
</tr>
<tr>
<td>TOTAL</td>
<td>18,085.21</td>
<td>100%</td>
<td></td>
</tr>
</tbody>
</table>

This criterion is intended to provide a decision guideline to the Planning Commission and Township Board when considering zoning decisions. The overriding purpose of the guidelines is to promote infill in developed areas,
avoid undue costs by extending utilities and paving roads prematurely, and to provide the mechanism for a wider mix of uses throughout the commercial area and to a lesser extent in the residential areas. Exercising these guidelines will only have their full effect when there are thorough revisions to the zoning districts, permitted uses within them and the site plan development regulations.
Canvas, Jersey, Terry & String
Knit Gloves; Type: General
Purpose; Gender: Men's; Size: Universal
Coating/Material: Cotton Jersey; Cuff Type: Knit Wrist; Color: Brown
1.00 ea Qty: 00673202

File Sets; File Set Type: Swiss; File Types Included: Barrette; Crossing; Equalling; Flat; Half Round; Knife; Round; Round Edge Joint; Slitting; Square; Three Square; Number of Pieces: 12; File Length (Inch): 6-1/4; Level of Precision

http://metalworking.mscdirect.com/CGI/NNSRITW?MPNO=1656686
Electronic Calipers; Maximum Measuring Range (Decimal Inch): 6.00; Maximum Measuring Range (mm): 150.00; Resolution (Decimal Inch): 0.0005; Resolution (mm): 0.0100; Accuracy (Inch): 0.001; Accuracy (mm): 0.025

$146.50 ea Qty:

03356557

Hand Pads; Abrasive Type: Non-Woven; Abrasive Material: Aluminum Oxide; Grade: Very Fine; Pad Color: Maroon; Width/Diameter (Inch): 6; Overall Length (Inch): 9

$79.41 ea Qty:

Customer Support
My Account

Options: Add To Cart, Add to List, Email To A Friend, Print this page

Note: this item cannot be shipped via air carrier.
SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: STARRETT M-1 All Purpose Lubricant Low VOC
PRODUCT NUMBER(S): 93221, 93227, 93233

TRADE NAME: STARRETT
GENERAL USE: Lubricant
CHEMICAL FAMILY: Mixed Organic
PRODUCT DESCRIPTION: Amber liquid

MANUFACTURED FOR:
The L.S. Starrett Company
ADDRESS (NUMBER, STREET, P.O. BOX)
121 Crescent St.
(CITY, STATE AND ZIP CODE)
Athol, MA 01331

SITE ADDRESS (NUMBER, STREET, P.O. BOX) TELEPHONE NUMBER FOR INFORMATION / Customer Service
(978) 249-3551
1-800-255-3924 01-813-248-0574

SECTION 2 - HAZARDOUS INGREDIENTS

Hazardous Components % (by Weight) CAS # EINECS # Hazard Symbol (Full Text Section 15)
Hydrotreated light distillate 85 64742-47-8 265-149-8 Xn R45, 66, 67
Petrolatum 7 - 13 8009-03-8 232-373-2 None Not classified

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Amber liquid, potentially hazardous vapors. Combustible as defined by DOT and TDG for Air / Ocean transport. Classified by DOT as Combustible for ground transport in containers less than 120 gallons. Classified as Combustible by OSHA. Can cause serious or fatal complications if swallowed. Can cause eye and skin irritation upon contact. Inhalation of vapors can cause anesthetic effect leading to death in poorly ventilated areas. Hazard symbols for this product - Xn. Risk Phrases - R 65, 66, 67

POTENTIAL HEALTH EFFECTS

INHALATION:
High concentrations are irritating to the respiratory tract; may cause headache, dizziness, nausea, vomiting and malaise.

SKIN:
Brief contact may cause slight irritation; prolonged contact may cause moderate irritation or dermatitis.

EYES:
High vapor concentration or contact may cause irritation and discomfort.

INGESTION:
May result in vomiting; aspiration of vomitus into the lungs must be avoided; DO NOT induce vomiting. Minute amounts

CARCINOGENICITY:
NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No
CALIFORNIA, Prop 65? No

SECTION 4 - FIRST AID MEASURES

INHALATION:
Remove affected person to fresh air; provide oxygen if breathing is difficult; if affected person is not breathing, administer CPR and seek emergency medical attention.

EYES:
Remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention.

SKIN:
Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

INGESTION:
DO NOT induce vomiting; if vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs; seek immediate medical attention. Vomiting may be induced only under the supervision of a physician.
SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:
Product is combustible. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide.

EXTINGUISHING MEDIA:
Carbon dioxide, water fog, dry chemical, chemical foam.

FIRE FIGHTING PROCEDURES:
Firefighters must wear full facepiece self-contained breathing apparatus in positive pressure mode. Do not use solid stream of water since stream will scatter and spread fire. Fine water spray can be used to keep fire-exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Closed containers can explode due to buildup of pressure when exposed to extreme heat. Do not use direct stream of water on pool fires as product may reignite on water surface. Caution - Material is combustible!

HAZARDOUS COMBUSTION PRODUCTS:
Smoke, fumes, oxides of carbon.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

COMBUSTIBLE - Evacuate and ventilate area; remove all sources of sparks, ignition and open flames; confine and absorb into approved absorbent; place material into approved containers for disposal; do not wash to sewer or waterway.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
This material is combustible. It should be stored in tightly closed containers in a cool, well ventilated area. Vapor may form explosive mixtures in air. All sources of ignition should be controlled. Keep this and other chemicals out of reach of children. Avoid inhaling concentrated fumes or vapors.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

HAZARDOUS COMPONENTS

<table>
<thead>
<tr>
<th>Hydrotreated light distillate</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA ppm</td>
<td>TWA mg/m³</td>
<td>STEL ppm</td>
</tr>
<tr>
<td>Petrolatum</td>
<td>600</td>
<td>2000</td>
<td>NE</td>
</tr>
</tbody>
</table>

PERSONAL PROTECTION

RESPIRATORY PROTECTION:
None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

PROTECTIVE GLOVES:
Neoprene gloves, butyl or nitrile rubber gloves with cuffs.

EYE PROTECTION:
Protective eyeglasses or chemical safety goggles. Refer to 29 CFR 1910.133 or European Standard EN166.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
Safety eyewash station nearby.

WORK / HYGIENIC PRACTICES:
Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR
Amber liquid, pleasant characteristic odor

VAC

VAPOR PRESSURE
< 0.5 mm Hg @ 20°C

SPECIFIC GRAVITY (WATER = 1)
0.8

BOILING POINT / BOILING RANGE
370 - 470°F (187.8 - 243.3°C) (liquid phase)

SOLUBILITY IN WATER
Negligible

FLASH POINT
150°F (67°C) TCC

VISCOSITY
Like that of water

FLAMMABLE LIMITS

| LEL: 1.0% | UEL: 6.0% |

VAPOOR DENSITY (AIR = 1)
> 1

AUTO-IGNITION TEMPERATURE
ND

EVAPORATION RATE (WATER = 1)
< 1
SECTION 10 - STABILITY AND REACTIVITY

STABILITY: STABLE
CONDITIONS TO AVOID:
Extreme temperatures, open flames.

INCOMPATIBILITY (MATERIALS TO AVOID):
Strong oxidizers, strong acids.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes or vapors, and smoke may be produced.

HAZARDOUS POLYMERIZATION:
Will not occur.
CONDITIONS TO AVOID:
None related to polymerization.

SECTION 11 - TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>CAS #</th>
<th>LD50 of Ingredient (Specify Species and Route)</th>
<th>LC50 of Ingredient (Specify Species)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrotreated light distillate</td>
<td>64742-47-8</td>
<td>&gt; 5000 mg/kg Oral - rat</td>
<td>ND</td>
</tr>
<tr>
<td></td>
<td>265-149-8</td>
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<td>Petrolatum</td>
<td>8009-03-8</td>
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<td></td>
<td>232-373-2</td>
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</table>

SECTION 12 - ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product, it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
According to the European Waste Catalogue, waste codes are application specific and should be assigned by the user based on the application for which the product is used. Dispose of in accordance with Local, State, and Federal Regulations. This product may produce hazardous vapors in a closed disposal container creating a dangerous environment. Refer to “40 CFR Protection of Environment Parts 260 - 299” for complete waste disposal regulations. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals. Do not flush to sanitary sewer or waterway.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: ORM-D (North America), Other regulated Substances, UN 3082 (Europe)

DOT HAZARD CLASS / Pack Group: Not Regulated
IATA HAZARD CLASS / Pack Group: 9 / III
IMDG HAZARD CLASS: 9
RID/ADR Dangerous Goods Code: 9
UN TDG Class / Pack Group: 90
HAZARD SYMBOLS: Hazard Identification Number (HIN): 90

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.
SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act): All components are listed under TSCA Section 8(b).

SARA TITLE III (USA - Superfund Amendments and Reauthorization Act): Immediate health.

Acute Health: Yes Chronic Health: Yes

Fire: Yes Sudden Release of Pressure: No

Reactive: No

313 REPORTABLE INGREDIENTS: None

CERCLA (USA - Comprehensive Response Compensation and Liability Act): None

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: None

CCPR (Canadian Controlled Products Regulations): This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: B3

CIDL (Canadian Ingredient Disclosure List): Components of this product identified by CA3 number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.

CDSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List): Referenced on CDSL

EINECS (European Inventory of Existing Commercial Chemical Substances): Referenced

VGK Water Quality Index: 2

RISK PHRASES:

S2 : Keep out of the reach of children.

SECTION 16 - OTHER INFORMATION

Legend

NA = Not Applicable  ND = Not Determined  NE = Not Established  NR = Not Reported

HMIS HAZARD RATINGS

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
<th>PERSONAL PROTECTIVE EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>2</td>
<td>B</td>
</tr>
<tr>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>0</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

REVISION SUMMARY:


MSDS Prepared by:

ChemTel Inc.
1305 North Florida Avenue
Tampa, Florida USA 33602-2902
Toll Free North America 1-888-265-3924 Int. +01 813-248-0573
Website: www.chemtelinc.com

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendor or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.
MSC Metalworking #: 00090282

Description
Air Tool & Air Compressor Oil; Type: Air Tool Oil; Container Size: 1 Gal.; Container Type: Jug; ISO Viscosity Grade: 22

Options: Add To Cart  Add to List  Email To A Friend  Print this page
Section 1: Product & Company Identification

Product Name: Air Tool Oil
Product Number(s): SL2531, SL2533, 74095
Product Use: lubricant for pneumatic equipment

Manufacturer / Supplier Contact Information:
In United States: CRC Industries, Inc.
865 Louis Drive
Warminster, PA 18974
www.crcindustries.com
1-215-674-4300 (General)
(800) 521-3168 (Technical)
(800) 272-4620 (Customer Service)
In Canada: CRC Canada Co.
2-1246 Lorimar Drive
Mississauga, Ontario L5S 1R2
www.crc-canada.ca
1-905-670-2291

In Mexico: CRC Industries Mexico
Av. Benito Juárez 4055 G
Colonia Orquidea
San Luis Potosí, SLP CP 78394
www.crc-mexico.com
52-444-824-1666

24-Hr Emergency – CHEMTREC: (800) 424-9300 or (703) 527-3887

Section 2: Hazards Identification

Emergency Overview
As defined by OSHA’s Hazard Communication Standard, this product is non-hazardous.

Appearance & Odor: Amber viscous liquid, faint petroleum odor

Potential Health Effects:

ACUTE EFFECTS:
EYE: Direct contact irritates slightly with redness and swelling.
SKIN: Slightly irritating. Repeated or prolonged contact can result in drying of the skin.
INHALATION: Inhalation hazard at room temperature is unlikely due to the low volatility of this product. Heating can generate vapors that may cause respiratory irritation, nausea and headaches.
INGERITION: May cause stomach pain or vomiting. Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis.

CHRONIC EFFECTS: Unknown
TARGET ORGANS: Unknown

Medical Conditions Aggravated by Exposure: Unknown

See Section 11 for toxicology and carcinogenicity information on product ingredients.
Section 3: Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CAS NUMBER</th>
<th>% by Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrotreated light naphthenic distillates</td>
<td>64742-53-6</td>
<td>93 - 97</td>
</tr>
<tr>
<td>Solvent-refined heavy naphthenic distillates</td>
<td>64741-96-4</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Zinc, dithiophosphate di-C1-14-alkyl esters</td>
<td>68649-42-3</td>
<td>&lt; 1</td>
</tr>
</tbody>
</table>

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

Ingestion: Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

Note to Physicians: If product is injected into or under the skin, or into any part of the body, the individual should be evaluated immediately as a surgical emergency. Even though symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

Section 5: Fire-Fighting Measures

Flammable Properties: As defined by OSHA, this product is a nonflammable.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>&gt; 300°F (COC)</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>ND</td>
</tr>
<tr>
<td>Upper Explosive Limit</td>
<td>ND</td>
</tr>
<tr>
<td>Lower Explosive Limit</td>
<td>ND</td>
</tr>
</tbody>
</table>

Fire and Explosion Data:

Suitable Extinguishing Media: Foam, dry chemicals, sand, dolomite, carbon dioxide

Products of Combustion: Acrid smoke/fumes; oxides of carbon

Explosion Hazards: Containers, when exposed to heat from fire, may build pressure and rupture.

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decompostion products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8. Minimize skin contact

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Methods for Containment & Clean-up: Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory
Section 7: Handling and Storage

Handling Procedures: Do not reuse container. Keep container closed when not in use. Ventilate well and avoid breathing vapors. Do not store or mix with strong oxidizers. Avoid strong heating. For product use instructions, please see the product label.

Storage Procedures: Store in a cool dry area out of direct sunlight. Containers should be tightly closed while in storage. Keep away from sources of ignition. Store away from strong acids and oxidizers.

Aerosol Storage Level: NA

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>OSHA</th>
<th>ACGIH</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
<td>TWA</td>
</tr>
<tr>
<td>Hydrotreated light naphthenic distillates</td>
<td>5</td>
<td>NE</td>
<td>0.2</td>
</tr>
<tr>
<td>Solvent-refined heavy naphthenic distillates</td>
<td>5</td>
<td>NE</td>
<td>0.2</td>
</tr>
<tr>
<td>Zinc, dithiophosphate di-C1-14-alkyl esters</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
</tbody>
</table>

Controls and Protection:

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection: None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Air monitoring is needed to determine actual employee exposure levels. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile or PVC. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State: liquid (viscous)
Color: amber
Odor: mild petroleum
Odor Threshold: ND
Specific Gravity: 0.91
Product Name: Air Tool Oil

Product Number(s): SL2531, SL2533, 74095

Initial Boiling Point: > 360°F
Freezing Point: ND
Vapor Pressure: ND
Vapor Density: > 1 (air = 1)
Evaporation Rate: slow
Solubility: insoluble in water
Coefficient of water/oil distribution: ND
pH: NA
Volatile Organic Compounds: wt %: 0 g/L: 0 lbs/gal: 0

Section 10: Stability and Reactivity

Stability: Stable
Conditions to Avoid: Sources of ignition
Incompatible Materials: Strong acids and oxidizers
Hazardous Decomposition Products: Oxides of carbon, sulfur and phosphorus
Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

Acute Toxicity:

<table>
<thead>
<tr>
<th>Component</th>
<th>Oral LD₅₀ (rat)</th>
<th>Dermal LD₅₀ (rabbit)</th>
<th>Inhalation LC₅₀ (rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrotreated light naphthenic distillates</td>
<td>&gt; 5000 mg/kg</td>
<td>&gt; 2000 mg/kg</td>
<td>2.18 mg/L/4H</td>
</tr>
<tr>
<td>Solvent-refined heavy naphthenic distillates</td>
<td>No data</td>
<td>No data</td>
<td>No data</td>
</tr>
<tr>
<td>Zinc, dithiophosphate di-C1-14-alkyl esters</td>
<td>No data</td>
<td>No data</td>
<td>No data</td>
</tr>
</tbody>
</table>

Chronic Toxicity:

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA Carcinogen</th>
<th>IARC Carcinogen</th>
<th>NTP Carcinogen</th>
<th>Irritant E (mild) / S (mild)</th>
<th>Sensitizer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrotreated light naphthenic distillates</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Unknown</td>
<td>Unknown</td>
</tr>
<tr>
<td>Solvent-refined heavy naphthenic distillates</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Unknown</td>
<td>Unknown</td>
</tr>
<tr>
<td>Zinc, dithiophosphate di-C1-14-alkyl esters</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Unknown</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

Reproductive Toxicity: No information available
Teratogenicity: No information available
Mutagenicity: No information available
Synergistic Effects: No information available
Other: IARC has determined in reviewing cancer prevalence of exposed workers that the carcinogenic activity of refined oils is related to the severity of processing of the base oil. The base oils in this product contain <3% DMSO Extractable total polycyclic aromatic compound (PAC) per IP 346.
Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: No information available
Persistence / Degradability: No information available
Bioaccumulation / Accumulation: No information available
Mobility in Environment: No information available

Section 13: Disposal Considerations

Waste Classification: This product is not a RCRA hazardous waste as packaged. (See 40 CFR Part 261.20 – 261.33) Used oil should be collected and handled in accordance with 40 CFR Part 279. Used oil that is mixed with hazardous waste may be subject to regulation as hazardous waste. Empty containers may be recycled.

All disposal activities must comply with federal, state, provincial and local regulations. Local regulations may be more stringent than state, provincial or national requirements.

Section 14: Transport Information

US DOT (ground): Not Regulated
ICAO/IATA (air): Not Regulated
IMO/IMDG (water): Not Regulated
Special Provisions: None

Section 15: Regulatory Information

U.S. Federal Regulations:

Toxic Substances Control Act (TSCA):
All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):
Reportable Quantities (RQ's) exist for the following ingredients: None

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:
Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:
- Fire Hazard: No
- Reactive Hazard: No
- Release of Pressure: No
- Acute Health Hazard: No
- Chronic Health Hazard: No
Product Name: Air Tool Oil
Product Number (s): SL2531, SL2533, 74095

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
Zinc, dithiophosphate di-C1-14-alkyl esters (zinc compounds): < 1%

Clean Air Act:
Section 112 Hazardous Air Pollutants (HAPs): None

U.S. State Regulations:
California Safe Drinking Water and Toxic Enforcement Act (Prop 65):
This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: N-Methylpyrrolidone (< 35 ppm)

Consumer Products VOC Regulations: This product is not regulated.

State Right to Know:
New Jersey: Petroleum Oil
Pennsylvania: None
Massachusetts: 64742-53-6
Rhode Island: None

Canadian Regulations:
Controlled Products Regulations:
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.
WHMIS Hazard Class: Not Regulated
Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt

European Union Regulations:
RoHS Compliance: This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the(482,697),(843,956)

Additional Regulatory Information: None

Section 16: Other Information

<table>
<thead>
<tr>
<th>HMIS® (II)</th>
<th>NFPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health: 1</td>
<td>1</td>
</tr>
<tr>
<td>Flammability: 1</td>
<td>1</td>
</tr>
<tr>
<td>Reactivity: 0</td>
<td>0</td>
</tr>
<tr>
<td>PPE: B</td>
<td></td>
</tr>
</tbody>
</table>

Ratings range from 0 (no hazard) to 4 (severe hazard)

Prepared By: Michelle Rudnick
CRC #: 720090
Revision Date: 08/19/2009
Product Name: Air Tool Oil

Changes since last revision: MSDS reformatted to meet the requirements of the Canadian Controlled Products Regulations.

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstract Service
CFR: Code of Federal Regulations
DOT: Department of Transportation
DSL: Domestic Substance List
g/L: grams per Liter
HMIS: Hazardous Materials Identification System
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods
IMO: International Maritime Organization
lbs/gal: pounds per gallon
LC: Lethal Concentration
LD: Lethal Dose

NA: Not Applicable
ND: Not Determined
NIOSH: National Institute of Occupational Safety & Health
NFPA: National Fire Protection Association
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PMCC: Pensky-Martens Closed Cup
PPE: Personal Protection Equipment
ppm: Parts per Million
RoHS: Restriction of Hazardous Substances
STEL: Short Term Exposure Limit
TCC: Tag Closed Cup
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Information System
**Item Details**

Lubricants, Coolants & Fluids > Metalworking Fluids > Tapping Fluids > Item #00261958

**Options:**
- Add To Cart
- Add to List
- Email To A Friend
- Print this page

**Tap Magic**

*MSC Metalworking #: 00261958*

**J&L #: STK-30128B**

**Description**: Tapping Fluids; Type: Cutting & Tapping Fluid; Applications: All Metals; Trade Name/Number: Tap Magic ProTap; Container Size: 1 Gal.; Container Type: Can

**Brand**: Tap Magic
**Type**: Cutting & Tapping Fluid
**Applications**: All Metals
**Trade Name/Number**: Tap Magic ProTap
**Container Size**: 1 Gal.
**Container Type**: Can
**Metalworking Book**: 1895
**Big Book**: 2722
**MSDS Sheet**: Get MSDS for this item

**Qty:**
- **Order Qty of 1 = (1) 1 Gallon Can**
- **Quantity Break**: 1 - 1: $79.16 ea
  - **Pricing**: 2 +: $71.24 ea

**In stock**: 232

**Mfr Tap Magic**

**Mfr #: 30128P**

**Safety Glasses**; **Type**: Framed
**Safety Glasses**; **Lens Color**: Family: Clear; **Lens Coating**: Scratch Resistant; **Frame Color**: Black; **Frame Material**: Plastic;
**Temple Style**: Adjustable w/ Side Guards

**Price**: $3.25 ea
**Qty:**
- **84398429**

**Wrist Color**: Brown

**Canvas, Jersey, Terry & String Knit Gloves**; **Type**: General
**Purpose**: Gender: Men's; **Size**: Universal; **Coating/Material**: Cotton Jersey; **Cuff Type**: Knit Wrist; **Color**: Brown

**Price**: $1.00 ea
**Qty:**

**Order**

**Get MSDS for this item**

# MATERIAL SAFETY DATA SHEET


The Steco Corporation  
2330 Cantrell Road  
P.O. Box 2238  
Little Rock, AR 72203  
Emergency Response: (800) 255-3924  
Information: (800) 643-8026  
Fax: (501) 374-4278  
Date Reviewed: March 12, 2009

## TRADE NAME

**CHEMICAL NAME & SYNONYMS**

- Hydrocarbon Mixture

**DOT SHIPPING NAME**

- n.o.s. , Combustible Liquid, NA1993, III, (Petroleum Distillate)

**HMIS/NFPA CODE**

- Health 1; Fire 2; Reactivity 1; Specific - Solvent

**MANUFACTURING CODE NO.:**

- 8358

**COMMODITY CODE NO.:**

- 332-9150

## I. HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>OSHA PEL, ppm</th>
<th>ACGIH TLV, ppm</th>
<th>Other Limits</th>
<th>Max. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Distillate</td>
<td>8008-20-6</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>est. TLV</td>
<td>60</td>
</tr>
<tr>
<td>(Aliphatic 90%/Aromatic 10%)</td>
<td>1000 ppm</td>
<td></td>
<td></td>
<td>1000 ppm</td>
<td>40</td>
</tr>
<tr>
<td>Methyl Laurate</td>
<td>111-82-0</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>--</td>
<td>10</td>
</tr>
<tr>
<td>Vegetable Oil, Essential</td>
<td>8007-80-5</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>--</td>
<td></td>
</tr>
</tbody>
</table>

## II. PHYSICAL DATA

- **BOILING RANGE**, (760 mm, Mercury): 370 to 560°F
- **SPECIFIC GRAVITY** (Water = 1) (lbs/gal): 0.824 (6.88)
- **VAPOR PRESSURE** (mm of Mercury) @ 76°F: Less than 5
- **VAPOR DENSITY** (Air = 1): 5.5
- **SOLUBILITY IN WATER**, % by weight: Less than 1 (Insoluble)
- **EVAPORATION RATE** (Butyl Acetate = 1): 0.04
- **% VOLATILE BY VOLUME** @ 75°F: Less than 1
- **APPEARANCE**: Light yellow liquid
- **ODOR**: Pleasant
- **pH**: Neutral (Nonaqueous)

## III. FIRE & EXPLOSION DATA

- **LOWER FLAMMABLE LIMIT IN AIR** (% by volume): 0.7
- **UPPER FLAMMABLE LIMIT IN AIR** (% by volume): 5.0
- **FLASH POINT, PMCC**: 185°F
- **AUTOIGNITION TEMPERATURE**: 450°F
- **EXTINGUISHING MEDIA**: Foam, Carbon Dioxide, Dry Chemical

## IV. HEALTH HAZARD INFORMATION

**ROUTES OF ENTRY**: Ingestion is the primary method of possible entry. Material will not pass the skin barrier. Inhalation is unlikely due to low vapor pressure.

**EFFECTS OF ACUTE OVEREXPOSURE**

- **INHALATION**: Concentration in excess of 1000 ppm may cause headache, nasal and respiratory irritation, nausea, drowsiness, fatigue, eye irritation and central nervous system depression. Narcotic effects may be severe at concentrations greater than 20,000 ppm.
- **SKIN CONTACT**: Material will not pass the skin barrier.
- **INGESTION**: Headache, drowsiness, nausea, fatigue, CNS depression. LD50 for rabbits is 28g/kg; estimated toxic adult dose 3-4 oz.
- **EYE**: May cause pain and irritation.

***This MSDS covers part #s 20004A, 20016A, 20128A, 20640A, 23840A & 27040A.***
EFFECTS OF CHRONIC OVEREXPOSURE: Prolonged or repeated exposure may cause defatting of the skin and subsequent rash or irritation.

ALL ROUTES OF ENTRY: Based on available data, repeated exposures are not anticipated to cause any significant adverse effects. Birth defects are unlikely. Exposures having no adverse effects on mother should have no effect on the fetus. In animal studies, has been shown not to interfere with reproduction. Results of in vitro ("test tube") mutagenicity tests have been negative. Results of mutagenicity tests in animals have been negative. Does not cause cancer in long term animal studies. Not a carcinogen or suspect carcinogen.

CARCINOGENICITY: Does not cause cancer in long term animal studies. Not a carcinogen or suspect carcinogen.

EMERGENCY AND FIRST AID PROCEDURES:

EYE: Flush eyes gently with water for at least 15 minutes. Supportive treatment by a physician is recommended.

SKIN: Wash with mild soap and water. Remove wetted clothing until dry.

INHALATION: Remove to fresh air. Individuals showing pronounced anesthetic effects may require artificial respiration and oxygen.

INGESTION: Do not induce vomiting. Call a physician and/or transport to emergency medical facility immediately.

NOTES TO PHYSICIAN: ORAL: Low in toxicity. Emetics are contraindicated due to danger of aspiration. If CNS Depression is prominent, nikethamide may be given parenterally. Avoid epinephrine. If and when warranted by special circumstances, gastric lavage may be performed cautiously with 3% sodium bicarbonate or water. Instill 30 to 60 ml of olive oil in the stomach at the conclusion of lavage and follow with a saline cathartic (sodium sulfate) in water.

V. REACTIVITY DATA

STABILITY: Chemical stability is great; odor and color may be adversely affected by prolonged storage in hot, moist environment.

INCOMPATIBILITY: May cause swelling of some plastics and synthetic rubbers. Contact with strong oxidizing agents should be avoided. (Example: Oxygen gas under high pressure.)

HAZARDOUS DECOMPOSITION PRODUCTS: None. Incomplete combustion can yield carbon monoxide.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: None

VI. DISPOSAL, SPILL OR LEAK PROCEDURES

AQUATIC TOXICITY: Aquatic toxicity is low: Product is not soluble in water.

SPILL OR LEAK PROCEDURES:

SMALL SPILLS: Absorb with inert material (saw dust, rags, activated charcoal). Remove to out of doors and incinerate.

LARGE SPILLS: Evacuate area. Contain liquid; transfer to closed metal (steel) containers. Keep out of water supply. Protect from ignition sources.

WASTE DISPOSAL METHOD:

Small amounts may be incinerated in compliance with local, state and federal regulations. The recommended method of disposal for large quantities is recycling by a reclainer or incineration. "If inert absorbents are employed in spill containment or cleanup, these absorbents must be non-biodegradable materials if destined for landfill disposal. Suitable absorbents include natural minerals (clay), activated charcoal, man-made polymers (HD polyethylene)."

NEUTRALIZATION CHEMICAL: Product may be effectively absorbed with activated charcoal.

VENTILATION REQUIREMENTS: Normal ventilation with regular use to maintain vapor concentration below 1000 ppm.

***This MSDS covers part#s 20004A, 20016A, 20128A, 20640A, 23840A & 27040A***
SPECIFIC PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY: None during normal use. Up to 2500 ppm, half-mask organic vapor respirator. Up to 5000 ppm, full-face organic vapor respirator, or full-face supplied air respirator. Greater than 5000 ppm, fire fighting or unknown concentration, self-contained breathing apparatus with positive pressure.

EYES: None during normal use; face shield is recommended during machining operations.

SKIN: None required for casual contact during normal use. Nitrile, neoprene or other petroleum distillate resistant gloves and/or boots recommended for dealing with large spills.

VIII. SPECIAL PRECAUTIONS

It is a combustible liquid, keep away from open flames. Do not ingest. Do not expose to ignition sources. Storage life is indefinite if protected from heat and moisture. Do not store with any strong oxidizers.

IX. ADDITIONAL INFORMATION

Tap Magic Aluminum DOES NOT CONTAIN 1,1,1-trichloroethane, or any ozone depleting substances. Tap Magic Aluminum does not contain nitrites, nitrite derivatives, amines, polynuclear aromatic compounds either as an ingredient or a trace contaminant.

Tap Magic Aluminum does not contain any chemical compound listed on the SARA list of "Extremely Hazardous Chemicals" and is in compliance with all of the requirements of the TSCA at the time of shipment.

Caution: Any cutting fluid can be "overworked" or "overheated", causing it to break down. This overuse is identified by the sight of or strong odor of vapors or fumes not normally present. The effects of these vapors or fumes on human health have not been fully determined. After use of this product, clean and lubricate metal surfaces to avoid staining and/or corrosion.

BY: Asa L. Morton, Chief Chemist, American Interplex Corporation, Little Rock, AR 72204
TELEPHONE: (501) 224-5060
Drill Bit Sets; Material Set Type: Metalworking/Multipurpose Drill Bits; Drill Bit Set Type: Jobber Length Drill Bits; Minimum Drill Bit Size (Inch): 1/16; Minimum Drill Bit Size (Letter): A; Minimum Drill Bit Size (Wire): #60

$265.36 ea  Qty: 00673202

File Sets; File Set Type: Swiss; File Types Included: Barrette; Crossing; Equalling; Flat; Half Round; Knife; Round; Round Edge Joint; Slitting; Square; Three Square; Number of

Cutting & Grinding Fluids; Type: Cutting & Grinding Fluid; Applications: Ferrous & Nonferrous Metals; Trade Name/Number: Cimperial 1070/LF; Container Size: 5 Gal.; Container Type: Pail; Formula: Water-Soluble Oil

Milacron Cutting & Grinding Fluid
Ferrous & Nonferrous Metals
Cimperial 1070/LF
5 Gal.
Pail
Water-Soluble Oil

Get MSDS for this item

http://metalworking.mscdirect.com/CGI/NNSRITW?PMPXNO=2723321

10/11/2011
Material Safety Data Sheet

CIMPERIAL® 1070
METALWORKING FLUID CONCENTRATE

DATE EFFECTIVE: 10-27-2010

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
Manufacturer: CIMCOOL® Industrial Products LLC
3000 Disney Street
Cincinnati, OH 45209 United States

Emergency:
Telephone (USA): 1-800-424-9300 (CHEMTREC)
Telephone (Outside USA): 1-703-527-3887 (CHEMTREC)

General Information:
Telephone: 1-513-458-8199

Generic Name: Water Soluble Metalworking Fluid Concentrate

2 EMERGENCY INFORMATION
Product is combustible. Product is alkaline. Product is a primary eye irritant. Product may be a primary skin irritant. Highway spills could result in slippery conditions. No other significant health effects are associated with this material.

3 POTENTIAL HEALTH EFFECTS OF DIRECT EXPOSURE

| Ingestion: | Not orally toxic |
| Product at Use Dilution | Extended exposure to mist may cause upper respiratory irritation. | Will cause stinging sensation in the eye. |
| Eye Contact: | Product is a primary eye irritant. | Not irritating to the skin when used as directed and good personal hygiene is practiced. |
| Skin Contact: | Product may be a primary skin irritant. | Swallowing small quantities may cause diarrhea, nausea or vomiting. |

Medical Conditions generally aggravated by exposure
May aggravate existing skin irritation where further defatting or skin penetration could occur. Skin irritation (redness and dryness of hands) may be experienced when the diluted product has been contaminated by certain oils, by dissolved metals, or when mix ratio is too strong. When problems occur, use of water-resistant barrier creams may be a temporary control measure. Contact CIMCOOL® Industrial Products LLC Technical Services at 1-513-458-8199 for specific recommendations.
When used in applications generating high levels of mist, operator exposure can be minimized by proper ventilation, use of mist collectors or splash guards, as appropriate. If there is doubt about actual mist levels present, monitoring should be conducted. Contact CIMCOOL® Industrial Products LLC at 1-813-458-8199 for specific recommendations.

Repeated excessive exposures to high amounts of triethanolamine may cause liver and kidney effects.

Carcinogen Listings:
NTP: No
IARC: No
OSHA: No

Signs and symptoms of exposure

Acute
Eye injury may result from contact with product. Skin irritation can result from improper use and handling of product.

4 EMERGENCY AND FIRST AID PROCEDURES

Eyes
In case of eye contact, flush immediately with running water for at least 15 minutes, and get prompt medical attention. Continue to flush eyes with water while awaiting medical attention.

Skin Contact
For skin contact flush with large amounts of water while removing contaminated clothing.

Diluted product is not irritating to the skin when used as recommended and good personal hygiene is practiced. Remove contaminated shoes and clothing and launder before reuse. If irritation persists, get medical attention.

Ingestion
If the material is swallowed, get immediate medical attention or advice. DO NOT INDUCE VOMITING. Give two glasses of water or milk. Immediately contact a physician and obtain treatment. Swallowing small quantities of diluted product may cause nausea, diarrhea or abdominal distress.

Inhalation
Inhalation can occur in applications where high mist levels are generated. OSHA has set a PEL of 15 mg/m³ for any airborne particulate as a nuisance level of exposure. NIOSH has set a REL of 0.5 mg/m³ for metalworking fluid mist. If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention.

5 CONTROL MEASURES

Respiratory protection
Product is not volatile.

In metalworking fluid applications where time-weighted exposures are 0.5 to 5 mg/m³, mist reduction through improved ventilation, mist collection or process modification is recommended by NIOSH. Where this is not possible, NIOSH recommends the use of any air purifying, half-mask respirator including a disposable respirator, equipped with any P- or R-series particulate filter. If the average exposure will exceed 5 mg/m³, NIOSH recommends use of a powered, air-purifying respirator equipped with a hood or helmet and a HEPA filter. If respiratory problems are present when mist levels are ≤ 0.5 mg/m³, respiratory protection should be based on the individual recommendation of a qualified healthcare provider.

Caution
The appropriate use and type of respirator is dependent upon use of the product and local operating conditions.
Ventilation

For most applications, adequate shop ventilation is needed. However, when high mist levels are generated or where machines are close together or ventilation is inadequate, operators may experience respiratory irritation. For such applications, use of splash guards or mist collectors is recommended.

Eye protection

Proper metalworking plant eye protection required when handling product concentrate.

Other protective clothing or equipment

Use effective metalworking plant protective clothing as appropriate.

Work / Hygiene Practices

Good personal hygiene should always be followed.

Protective Gloves

Impervious gloves, such as nitrile gloves, are recommended when handling product concentrate.

6 HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Those ingredients may contribute to the acute product hazards listed under the Potential Health Effects section. Other substances, not hazardous under the OSHA Hazard Communication Standard, may be present. Further composition information may be available to health professionals as provided in the Standard.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEVERELY-HYDROTREATED NAPHTHENIC PETROLEUM DISTILLATES</td>
<td>64742-52-5</td>
<td>30 - 60</td>
</tr>
<tr>
<td>MONOETHANOLAMINE</td>
<td>14143-55-1</td>
<td>5 - 10</td>
</tr>
<tr>
<td>SODIUM ALKYLBENZENE SULFONATE</td>
<td>78330-12-8</td>
<td>1 - 5</td>
</tr>
<tr>
<td>ALKOXYLATED LINEAR ALCOHOLS</td>
<td>69227-21-0</td>
<td>1 - 5</td>
</tr>
<tr>
<td>TRIETHANOLAMINE</td>
<td>102-71-6</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

7 FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media

Chemical foam, carbon dioxide, or dry chemical

Hazardous Combustion Products

Smoke, fumes, oxides of nitrogen, hydrogen chloride, and oxides of carbon

Flash Point: 385 °F (196.1 °C) Cleveland Open Cup

Lower Explosive Limit: Not Applicable

Upper Explosive Limit: Not Applicable

HMIS RATINGS

Health 1
Flammability Classification 1
Reactivity 0

NFPA RATINGS

Health 1
Flammability Classification 1
Reactivity 0
ACCIDENTAL RELEASE MEASURES

Contain the spill, collect on absorbent material, and discard as dictated by Federal, state and local regulations that may apply. Flush area thoroughly with water.

Reportable Quantity: None

WASTE DISPOSAL

For Used Product

Disposal procedures must comply with local, county, state and Federal regulations. If pre-treatment is needed, ultrafiltration, emulsion breaking or evaporation may be used. Contact CIMCOOL® Industrial Products LLC at 1-513-458-8199 for assistance.

For Unused Product

Product is not a hazardous waste as defined under 40 CFR 261. Contact CIMCOOL® Industrial Products LLC at 1-513-458-8199 for assistance.

Empty Containers

Empty containers will contain a residue which is not considered a hazardous waste under RCRA regulations. Drums can be drained to a "drip dry" condition by inversion and can be offered for recycling or scrap.

CAUTION: Empty containers retain residue (liquid and/or vapor) and may be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE THIS CONTAINER TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION: IT MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean drums since residue is difficult to remove. Empty drums should be completely drained, promptly bunged, and promptly returned to a drum reconditioner. Empty disposable bulk containers should be drained, sealed, and properly discarded. Empty recyclable bulk containers should be drained, sealed, and recycled. Empty pails and jugs should be drained and properly discarded.

HANDLING AND STORAGE

Avoid contact of product with eyes or skin. Wash thoroughly after handling. Do not swallow. Do not store product concentrate in direct sunlight or elevated temperatures. If frozen, thaw completely at room temperature prior to use. Use only as recommended by CIMCOOL® Industrial Products LLC.

Other Precautions

Contains amines. Do not add sodium nitrite or other nitrosating agents to this product because suspected cancer-causing nitrosamines may be formed. Product is combustible. Do not heat. Avoid open flames, sparks, and temperatures approaching the flash point.

PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: Not Applicable
Specific Gravity: 1.02
Evaporation Rate: Like water when diluted
Solubility (H2O): 100 % Miscible
Volatile Organic Content (by ASTM D2369): 9 %
P pH (Concentrate): Not Applicable
pH (Mix): 8.6 @ 5%
Recommended Starting Dilution: 5 %
Appearance/Odor: Hazy/Chemical
12 REACTIVITY

Stability
Stable under normal conditions.

Conditions to avoid
Use as directed.

Materials to avoid
Avoid contact with strong acids or oxidizers to product.

Hazardous Polymerization
Will not occur.

Combustion Products
Smoke, fumes, oxides of nitrogen, hydrogen chloride, and oxides of carbon

13 TRANSPORTATION INFORMATION

BY LAND
Hazardous Materials Description and Proper Shipping Name (49 CFR 172.101)
Not a Hazardous Material

BY AIR OR VESSEL
Hazardous Materials Description and Proper Shipping Name (49 CFR 172.101)
Not a Hazardous Material

14 REGULATORY INFORMATION

EXPOSURE GUIDELINES

<table>
<thead>
<tr>
<th>REGULATED MATERIAL</th>
<th>NIOSH REL</th>
<th>OSHA PEL</th>
<th>OSHA STEL</th>
<th>ACGIH TLV</th>
<th>ACGIH STEL</th>
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<td>MONOETHANOLAMINE</td>
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<td>6 ppm</td>
<td>3 ppm</td>
<td>6 ppm</td>
<td></td>
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<tr>
<td>TRIETHANOLAMINE</td>
<td></td>
<td></td>
<td></td>
<td>5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>METALWORKING FLUID MIST</td>
<td>0.5 mg/m³</td>
<td></td>
<td>5 mg/m³</td>
<td>5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>MINERAL OIL (MIST)</td>
<td>5 mg/m³</td>
<td></td>
<td></td>
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</tbody>
</table>

CERCLA
No components of this product are present at levels which require reporting under 40 CFR 302.4.

EPCRA (SARA) TITLE III Extremely Hazardous Substances (302): None

Hazardous Substances (311/312)
Product is a hazardous substance as defined under the OSHA Hazard Communication Standard and may be reportable under the provisions of SARA Sections 311 and 312.

HAZARD CATEGORIES
Acute Health: Yes
Chronic Health: No
Fire: Yes
Sudden Release of Pressure: No
Reactive: No

Material Name: CIMPERIAL® 1070
Effective Date: 10-27-2010
88ZH350
RCRA
Product concentrate does not meet the definition of a hazardous waste as defined under 40 CFR 261. It is possible that in use, the product may be contaminated by metals or by chlorinated solvents and the final waste may meet the TCLP definition. Each facility should assess each waste stream to determine if the used fluid should be treated as a hazardous waste.

TSCA
The ingredients of this product are on the TSCA inventory.

State Right to Know
Many states have enacted Community Right-To-Know laws which require information beyond that mandated by federal laws. Since some of these laws are inconsistent with the federal laws, the information in this sheet may not fully meet the requirements of every state.

This product is not subject to California's South Coast Air Quality Management District Rule 1144 (Rule only applicable to Vanishing Oils and Rust Inhibitors).

Toxic Substances (313)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>Max % Comments</th>
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<tbody>
<tr>
<td>None</td>
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<td></td>
</tr>
</tbody>
</table>

GLOSSARY OF ABBREVIATIONS

ACGIH  American Conference of Governmental Industrial Hygienists
CAS Chemical Abstracts Service
CERCLA Comprehensive Environmental Response Compensation and Liability Act
CFR Code of Federal Regulations
COC Cleveland Open Cup
DOT Department of Transportation
EPCRA Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC International Agency for Research on Cancer
NIOSH National Institute for Occupational Safety and Health
NTP National Toxicology Program
OSHA Occupational Safety and Health Administration
PEL Permissible Exposure Limit
RCRA Resource Conservation and Recovery Act
REC Recommended
REL Recommended Exposure Limit
SARA Superfund Amendments and Reauthorization Act
STEL Short-Term Exposure Limit
TCLP Toxicity Characteristics Leaching Procedure
TLV Threshold Limit Value
TSCA Toxic Substances Control Act
VOC Volatile Organic Compounds

Disclaimer
NOTE: The opinions expressed herein are those of qualified experts within CIMCOOL® Industrial Products LLC and of their suppliers. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and of these opinions and the condition and use of the product are not within the control of CIMCOOL® Industrial Products LLC, it is the user's obligation to determine the conditions of safe use of the product.
Item Details

Lubricants, Coolants & Fluids ▶ Metalworking Fluids ▶ Cutting & Grinding Fluids ▶ Item
#93057503

Options: ▶ Add To Cart ▶ Add to List ▶ Email To A Friend ▶ Print this page

MQbil
ADD TO CART ▶ ADD TO LIST

Qty:
Order Qty of 1 = (1) 5 Gallon Pail
Price: $111.20 ea
In stock: 261
Mfr: Mobil
Mfr #: 98HT91

Mobilmet 766
Extra High Performance Cutting Oil

MSC Metalworking #: 93057503
J&L #: MOB-00034J

Description
Cutting & Grinding Fluids; Type: Cutting Oil; Applications: Difficult-to-Machine Materials; Trade Name/Number: Mobilmet 766; Container Size: 5 Gal; Container Type: Pail

Brand
Mobil

Type
Cutting Oil

Applications
Difficult-to-Machine Materials

Trade Name/Number
Mobilmet 766

Container Size
5 Gal

Container Type
Pail

Metalworking Book
1897

Big Book
2730

MSDS Sheet
Get MSDS for this item

http://metalworking.mscdirect.com/CGI/NNSRITW?PMPXNO=19539976

10/11/2011
SECTION 1 | PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: MOBILMET 766
Product Description: Base Oil and Additives
Product Code: 663526-00, 971537
Intended Use: Metal processing fluid

COMPANY IDENTIFICATION

Supplier: EXXON MOBIL CORPORATION
3225 GALLows RD.
FAIRFAX, VA. 22037 USA
24 Hour Health Emergency 609-737-4411
Transportation Emergency Phone 800-424-9300
ExxonMobil Transportation No. 800-947-8147
MSDS Requests 600-662-4525, 800-662-4525

SECTION 2 | COMPOSITION / INFORMATION ON INGREDIENTS

Reportable Hazardous Substance(s) or Complex Substance(s)

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS#</th>
<th>Concentration*</th>
</tr>
</thead>
<tbody>
<tr>
<td>OLEFIN SULFIDE</td>
<td></td>
<td>1 - 5%</td>
</tr>
</tbody>
</table>

* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

SECTION 3 | HAZARDS IDENTIFICATION

This material may be considered to be hazardous according to regulatory guidelines (see (M)SDS Section 15).

POTENTIAL HEALTH EFFECTS

This product may be used in certain applications where misting can occur. Excessive exposure to liquids and mists may cause skin and eye irritation. In addition, excessive exposure to mists may cause respiratory irritation and damage and aggravate pre-existing emphysema or asthma. Low order of toxicity. High-pressure injection under skin may cause serious damage.

NFPA Hazard ID: Health: 0 Flammability: 1 Reactivity: 0
HMIS Hazard ID: Health: 0 Flammability: 1 Reactivity: 0

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.
SECTION 4  FIRST AID MEASURES

INHALATION
Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

SKIN CONTACT
Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

EYE CONTACT
Flush thoroughly with water. If irritation occurs, get medical assistance.

INGESTION
First aid is normally not required. Seek medical attention if discomfort occurs.

SECTION 5  FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA
Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

FIRE FIGHTING
Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire Hazards: Pressurized mists may form a flammable mixture.

Hazardous Combustion Products: Oxides of carbon, Smoke, Fume, Sulfur oxides, Aldehydes

FLAMMABILITY PROPERTIES
Flash Point [Method]: >180°C (356°F) [ASTM D-92]
Flammable Limits (Approximate volume % in air): LEL: 0.9  UEL: 7.0
Autoignition Temperature: N/D

SECTION 6  ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES
In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

**SPILL MANAGEMENT**

**Land Spill:** Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

**Water Spill:** Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

**ENVIRONMENTAL PRECAUTIONS**

**Large Spills:** Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

---

**SECTION 7 HANDLING AND STORAGE**

**HANDLING**

Avoid breathing mists or vapors. Small metal particles from machining may cause abrasion of the skin and may predispose to dermatitis. Prevent small spills and leakage to avoid slip hazard.

**Static Accumulator:** This material is a static accumulator.

**STORAGE**

Do not store in open or unlabelled containers.

---

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

Exposure limits/standards for materials that can be formed when handling this product: When mists / aerosols can occur, the following are recommended: 5 mg/m³ - ACGIH TLV, 10 mg/m³ - ACGIH STEL, 5 mg/m³ - OSHA PEL.

**NOTE:** Limits/standards shown for guidance only. Follow applicable regulations.

**ENGINEERING CONTROLS**

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.
PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No protection is ordinarily required under normal conditions of use and with adequate ventilation.
Particulate air-purifying respirator approved for dust/oil mist is recommended.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Work conditions can greatly affect glove durability; inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use.

Eye Protection: If contact is likely, safety glasses with side shields are recommended. Chemical type goggles should be worn during misting operations.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS
See Sections 6, 7, 12, 13.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

GENERAL INFORMATION
Physical State: Liquid
Color: Amber
Odor: Characteristic
Odor Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION
Relative Density (at 15°C): 0.88
Flash Point [Method]: >180°C (356°F) [ASTM D-92]
Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0
Autoignition Temperature: N/D
Boiling Point / Range: >316°C (600°F)
Vapor Density (Air = 1): >2 at 101 kPa
Vapor Pressure: <0.013 kPa (0.1 mm Hg) at 20°C
Evaporation Rate (n-butyl acetate = 1): N/D
pH: N/A
Log Pow (n-Octanol/Water Partition Coefficient): N/D
Solubility in Water: Negligible
Viscosity: 35.5 cSt (35.5 mm²/sec) at 40°C | 6.1 cSt (6.1 mm²/sec) at 100°C
Oxidizing Properties: See Sections 3, 15, 16.

OTHER INFORMATION
- Freezing Point: N/D
- Melting Point: N/A
- Pour Point: -15°C (5°F)
- DMSO Extract (mineral oil only), IP-346: < 3 %wt

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat. High energy sources of ignition.

MATERIALS TO AVOID: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

<table>
<thead>
<tr>
<th>Route of Exposure</th>
<th>Conclusion / Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td></td>
</tr>
<tr>
<td><strong>Toxicity (Rat):</strong> LC50 &gt; 5000 mg/m3</td>
<td>Minimally Toxic. Based on test data for structurally similar materials.</td>
</tr>
<tr>
<td><strong>Irritation:</strong> No endpoint data.</td>
<td>Negligible hazard at ambient/normal handling temperatures. Based on assessment of the components.</td>
</tr>
<tr>
<td>Ingestion</td>
<td></td>
</tr>
<tr>
<td><strong>Toxicity (Rat):</strong> LD50 &gt; 2000 mg/kg</td>
<td>Minimally Toxic. Based on test data for structurally similar materials.</td>
</tr>
<tr>
<td>Skin</td>
<td></td>
</tr>
<tr>
<td><strong>Toxicity (Rabbit):</strong> LD50 &gt; 2000 mg/kg</td>
<td>Minimally Toxic. Based on test data for structurally similar materials.</td>
</tr>
<tr>
<td><strong>Irritation (Rabbit):</strong> Data available.</td>
<td>Negligible irritation to skin at ambient temperatures. Based on test data for structurally similar materials.</td>
</tr>
<tr>
<td>Eye</td>
<td></td>
</tr>
</tbody>
</table>
**Irritation (Rabbit):** Data available. May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.

**CHRONIC/OTHER EFFECTS**

**For the product itself:**

Oil Mist (highly refined oils): Animals exposed to high concentrations of mist developed oil retention, inflammation, and oil granulomas in the respiratory tract. Oils exposed to high temperatures, cracking conditions, or mixing with tramp / used oils may introduce polycyclic aromatic compounds or microbial contaminants that could result in cancer or severe respiratory hazards.

**Contains:**

Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.

Additional information is available by request.

The following ingredients are cited on the lists below: None.

---REGULATORY LISTS SEARCHED---

1 = NTP CARC  
2 = NTP SUS  
3 = IARC 1  
4 = IARC 2A  
5 = IARC 2B  
6 = OSHA CARC

**SECTION 12 ECOLOGICAL INFORMATION**

The information given is based on data available for the material, the components of the material, and similar materials.

**ECOTOXICITY**

Material -- Not expected to be harmful to aquatic organisms.

**MOBILITY**

Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

**PERSISTENCE AND DEGRADABILITY**

Biodegradation:  
Base oil component -- Expected to be inherently biodegradable

**SECTION 13 DISPOSAL CONSIDERATIONS**

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

**DISPOSAL RECOMMENDATIONS**

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.
REGULATORY DISPOSAL INFORMATION
RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

SECTION 14 TRANSPORT INFORMATION

LAND (DOT): Not Regulated for Land Transport

LAND (TDG): Not Regulated for Land Transport

SEA (IMDG): Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA): Not Regulated for Air Transport

SECTION 15 REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: Under some use conditions, this material may be considered to be hazardous in accordance with OSHA 29 CFR 1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING: AICS, DSL, EINECS, TSCA

EPCRA: This material contains no extremely hazardous substances.

CWA / OPA: This product is classified as an oil under Section 311 of the Clean Water Act (40 CFR 110) and the Oil Pollution Act of 1990. Discharge or spills which produce a visible sheen on either surface water, or in waterways/sewers which lead to surface water, must be reported to the National Response Center at 800-424-8802.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

SARA (313) TOXIC RELEASE INVENTORY: This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

The Following Ingredients are Cited on the Lists Below: None.

--REGULATORY LISTS SEARCHED--
1 = ACGIH ALL  6 = TSCA 5a2  11 = CA P65 REPRO  15 = MN RTK
Product Name: MOBILMET 766
Revision Date: 05Sep2007
Page 8 of 9

2 = ACGIH A1  7 = TSCA 5e  12 = CA RTK  17 = NJ RTK
3 = ACGIH A2  8 = TSCA 6  13 = IL RTK  18 = PA RTK
4 = OSHA Z  9 = TSCA 12b  14 = LA RTK  19 = RI RTK
5 = TSCA 4  10 = CA P65 CARC  15 = MI 293

Code key: CARC=Carcinogen; REPRO=Reproductive

SECTION 16 OTHER INFORMATION
N/D = Not determined, N/A = Not applicable

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:
Revision Changes:
Section 13: Empty Container Warning was modified.
Section 08: Hand Protection was modified.
Section 06: Accidental Release - Spill Management - Water was modified.
Section 15: List Citation Table - Header was modified.
Section 15: National Chemical Inventory Listing was modified.
Composition: No components was modified.
Section 06: Notification Procedures was modified.
Composition: Component table was added.
Composition: Primary Ingredient Name was added.
Composition: CAS Number was added.
Composition: Concentration - Header was added.
Composition: Substances Table - Header was added.
Composition: Concentration Footnote was added.
Section 15: Chemical Name - Header was deleted.
Section 15: CAS Number - Header was deleted.
Section 15: List Citations - Header was deleted.
Section 15: List Citations Table was deleted.

PRECAUTIONARY LABEL TEXT:
Caution! Excessive exposure to mist may cause skin and eye irritation. In addition, excessive exposure to mist may cause respiratory irritation and damage, and aggravate pre-existing emphysema and asthma. Use with adequate ventilation. If inhaled and symptoms develop, remove to fresh air and get medical attention.

The information and recommendations contained herein are, to the best of ExxonMobil's knowledge and belief, accurate and reliable as of the date issued. You can contact ExxonMobil to insure that this document is the most current available from ExxonMobil. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, republication or retransmission of this document, in whole or in part, is not permitted. The term, "ExxonMobil" is used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliates in which they directly or indirectly hold any interest.

Internal Use Only
MHC: 0, 0, 0, 0, 0, 0
PPEC: A
Item Details

Lubricants, Coolants & Fluids > Lubricants & Lubrication Equipment > Lubricants > Oil

Machine Oils > Item #05276472

Options: Add To Cart Add to List Email To A Friend Print this page

Mobil

Qty:

Order Qty of 1 = (1) 5 Gallon Pail

Price: $131.23 ea

In stock: 188

Mfr: Mobil

Mfr #: 98384C

Mobil Way Oil

MSC Metalworking #: 05276472

J&L #: MOB-00004K

Description

Machine Oils; Type: Way Oil; Container Size: 5 Gal.; Container Type: Pail; ISO Viscosity Grade: 32

Brand

Mobil

Type

Way Oil

Container Size

5 Gal.

Container Type

Pail

ISO Viscosity Grade

32

Metalworking Book

1937

Big Book

2690

MSDS Sheet

Get MSDS for this item

Thin Parallel Sets; Height Range (Inch): 1/2 - 1-5/8;

Thickness: 1/8 (Inch); Length: 6 (Inch); Hardness: 50-54 HRC;

Number of Pieces: 20;

Fractional Heights (Inch): 1/2, 5/8, 3/4, 7/8, 1, 1-

$81.04 ea Qty:

62529482

Electronic Calipers; Maximum Measuring Range (Decimal Inch): 6.00; Maximum Measuring Range (mm): 150.00;

Resolution (Decimal Inch): 0.0005; Resolution (mm): 0.0100; Accuracy (Inch): 0.001;

Accuracy (mm): 0.025

http://metalworking.mscdirect.com/CGI/NNSRITW?PMPXNO=3314401

10/11/2011
SECTION 1  PRODUCT AND COMPANY IDENTIFICATION

PRODUCT
Product Name: MOBIL VACTRA OIL NO. 1  
Product Description: Base Oil and Additives  
Product Code: 600486-00, 970636  
Intended Use: Lubricant

COMPANY IDENTIFICATION
Supplier: EXXON MOBIL CORPORATION  
3225 GALLOWS RD.  
FAIRFAX, VA. 22037 USA  
24 Hour Health Emergency Phone 609-737-4411  
Transportation Emergency Phone 800-424-9300  
ExxonMobil Transportation No. 281-834-3296  
Product Technical Information Phone 800-662-4525, 800-947-9147  

SECTION 2  COMPOSITION / INFORMATION ON INGREDIENTS

No Reportable Hazardous Substance(s) or Complex Substance(s).

SECTION 3  HAZARDS IDENTIFICATION

This material is not considered to be hazardous according to regulatory guidelines (see (M)SDS Section 15).

POTENTIAL HEALTH EFFECTS
Low order of toxicity. Excessive exposure may result in eye, skin, or respiratory irritation. High-pressure injection under skin may cause serious damage.

NFPA Hazard ID:  Health: 0  Flammability: 1  Reactivity: 0
HMIS Hazard ID:  Health: 0  Flammability: 1  Reactivity: 0

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 4  FIRST AID MEASURES

INHALATION
Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use
mouth-to-mouth resuscitation.

SKIN CONTACT
Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

EYE CONTACT
Flush thoroughly with water. If irritation occurs, get medical assistance.

INGESTION
First aid is normally not required. Seek medical attention if discomfort occurs.

SECTION 5  FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA
Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

FIRE FIGHTING
Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Hazardous Combustion Products: Smoke, Fume, Aldehydes, Sulfur oxides, incomplete combustion products, Oxides of carbon

FLAMMABILITY PROPERTIES
Flash Point [Method]: >205°C (401°F) [ASTM D-92]
Flammable Limits (Approximate volume % in air): LEL: 0.9  UEL: 7.0
Autoignition Temperature: N/D

SECTION 6  ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES
In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

SPILL MANAGEMENT
Land Spill: Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

ENVIRONMENTAL PRECAUTIONS
Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.
(selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use.

**Eye Protection:** If contact is likely, safety glasses with side shields are recommended.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

**ENVIRONMENTAL CONTROLS**
See Sections 6, 7, 12, 13.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

**GENERAL INFORMATION**

Physical State: Liquid
Color: Amber
Odor: Characteristic
Odor Threshold: N/D

**IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION**

Relative Density (at 15 °C): 0.883
Flash Point [Method]: >205°C (401°F) [ASTM D-92]
Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0
Autoignition Temperature: N/D
Boiling Point / Range: >316°C (600°F)
Vapor Density (Air = 1): >2 at 101 kPa
Vapor Pressure: <0.013 kPa (0.1 mm Hg) at 20°C
Evaporation Rate (n-butyl acetate = 1): N/D
pH: N/A
Product Name: MOBIL VACTRA OIL NO. 1
Revision Date: 11 Dec 2008

| Log Pow (n-Octanol/Water Partition Coefficient): | > 3.5 |
| Solubility in Water: | Negligible |
| Viscosity: | > 32 cSt (32 mm²/sec) at 40 °C |
| Oxidizing Properties: | See Sections 3, 15, 16. |

OTHER INFORMATION
- Freezing Point: N/D
- Melting Point: N/A
- Pour Point: -6°C (21°F)
- DMSO Extract (mineral oil only), IP-346: < 3 %wt

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat. High energy sources of ignition.

MATERIALS TO AVOID: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

<table>
<thead>
<tr>
<th>Route of Exposure</th>
<th>Conclusion / Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td></td>
</tr>
<tr>
<td>Toxicity (Rat): LC50 &gt; 5000 mg/m³</td>
<td>Minimally Toxic. Based on test data for structurally similar materials.</td>
</tr>
<tr>
<td>Irritation: No end point data.</td>
<td>Negligible hazard at ambient/normal handling temperatures. Based on assessment of the components.</td>
</tr>
<tr>
<td>Ingestion</td>
<td></td>
</tr>
<tr>
<td>Toxicity (Rat): LD50 &gt; 5000 mg/kg</td>
<td>Minimally Toxic. Based on test data for structurally similar materials.</td>
</tr>
<tr>
<td>Skin</td>
<td></td>
</tr>
<tr>
<td>Toxicity (Rabbit): LD50 &gt; 5000 mg/kg</td>
<td>Minimally Toxic. Based on test data for structurally similar materials.</td>
</tr>
<tr>
<td>Irritation (Rabbit): Data available.</td>
<td>Negligible irritation to skin at ambient temperatures. Based on test data for structurally similar materials.</td>
</tr>
<tr>
<td>Eye</td>
<td></td>
</tr>
<tr>
<td>Irritation (Rabbit): Data available.</td>
<td>May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.</td>
</tr>
</tbody>
</table>

CHRONIC/OTHER EFFECTS
Contains:
Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.
Additional information is available by request.

The following ingredients are cited on the lists below: None.

--- REGULATORY LISTS SEARCHED ---
1 = NTP CARC
2 = NTP SUS
3 = IARC 1
4 = IARC 2A
5 = IARC 2B
6 = OSHA CARC

SECTION 12  ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

ECOTOXICITY
Material — Not expected to be harmful to aquatic organisms.

MOBILITY
Base oil component — Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

PERSISTENCE AND DEGRADABILITY
Biodegradation:
Base oil component — Expected to be inherently biodegradable.

BIOACCUMULATION POTENTIAL
Base oil component — Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

SECTION 13  DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS
Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

REGULATORY DISPOSAL INFORMATION
RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be
completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

SECTION 14  TRANSPORT INFORMATION

LAND (DOT) : Not Regulated for Land Transport

LAND (TDG) : Not Regulated for Land Transport

SEA (IMDG) : Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA) : Not Regulated for Air Transport

SECTION 15  REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING: AICS, IECSC, DSL, EINECS, ENCS, KECl, PICCS, TSCA

EPCRA: This material contains no extremely hazardous substances.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

SARA (313) TOXIC RELEASE INVENTORY: This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

The Following Ingredients are Cited on the Lists Below: None.

---REGULATORY LISTS SEARCHED---

1 = ACGIH ALL  6 = TSCA 5a2  11 = CA P65 REPRO  16 = MN RTK
2 = ACGIH A1  7 = TSCA 5e  12 = CA RTK  17 = NJ RTK
3 = ACGIH A2  8 = TSCA 6  13 = IL RTK  18 = PA RTK
4 = OSHA Z  9 = TSCA 12b  14 = LA RTK  19 = RI RTK
5 = TSCA 4  10 = CA P65 CARC  15 = MI 293

Code key: CARC=Carcinogen; REPRO=Reproductive

SECTION 16  OTHER INFORMATION

N/D = Not determined, N/A = Not applicable
THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Revision Changes:
Section 09: Pour Point C(F) was modified.
Section 08: Exposure limits/standards was modified.

The information and recommendations contained herein are, to the best of ExxonMobil's knowledge and belief, accurate and reliable as of the date issued. You can contact ExxonMobil to insure that this document is the most current available from ExxonMobil. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, republication or retransmission of this document, in whole or in part, is not permitted. The term, "ExxonMobil" is used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliates in which they directly or indirectly hold any interest.
Electronic Calipers; Maximum Measuring Range (Decimal Inch): 6.00; Maximum Measuring Range (mm): 150.00; Resolution (Decimal Inch): 0.0005; Resolution (mm): 0.0100; Accuracy (Inch): 0.001; Accuracy (mm): 0.025

$146.50 ea Qty:

Safety Glasses; Type: Framed Safety Glasses; Lens Color Family: Clear; Lens Coating: Scratch Resistant; Frame Color: Black; Frame Material: Plastic; Temple Style: Adjustable with Side Guards

$3.25 ea Qty:

Mobil Velocite 10 Spindle Oil

Mobil

Description: Machine Oils; Type: Spindle Oil; Container Size: 5 Gal.; Container Type: Pail; ISO Viscosity Grade: 22

Brand: Mobil

Type: Spindle Oil

Qty of 1 = (1) 5 Gallon Pail

Price: $115.62 ea

In stock: 89

Mfr: Mobil

Mfr #: 98709D

Get MSDS for this item
MATERIAL SAFETY DATA SHEET

SECTION 1  PRODUCT AND COMPANY IDENTIFICATION

PRODUCT
Product Name: MOBIL VELOCITE OIL NO. 10
Product Description: Base Oil and Additives
Product Code: 201560509090, 600684-00, 970574
Intended Use: Circulating/gear oil

COMPANY IDENTIFICATION
Supplier: EXXON MOBIL CORPORATION
3225 GALLOWS RD.
FAIRFAX, VA. 22037 USA
24 Hour Health Emergency 609-737-4411
Transportation Emergency Phone 800-424-9300
ExxonMobil Transportation No. 281-834-3296
Product Technical Information 800-662-4525, 800-947-9147

SECTION 2  COMPOSITION / INFORMATION ON INGREDIENTS

No Reportable Hazardous Substance(s) or Complex Substance(s).

SECTION 3  HAZARDS IDENTIFICATION

This material is not considered to be hazardous according to regulatory guidelines (see (M)SDS Section 15).

POTENTIAL HEALTH EFFECTS
Low order of toxicity. Excessive exposure may result in eye, skin, or respiratory irritation. High-pressure injection under skin may cause serious damage.

NFPA Hazard ID: Health: 0 Flammability: 1 Reactivity: 0
HMIS Hazard ID: Health: 0 Flammability: 1 Reactivity: 0

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 4  FIRST AID MEASURES

INHALATION
Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use
mouth-to-mouth resuscitation.

SKIN CONTACT
Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

EYE CONTACT
Flush thoroughly with water. If irritation occurs, get medical assistance.

INGESTION
First aid is normally not required. Seek medical attention if discomfort occurs.

SECTION 5  FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA
Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

FIRE FIGHTING
Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Hazardous Combustion Products: Smoke, Fume, Aldehydes, Sulfur oxides, Incomplete combustion products, Oxides of carbon

FLAMMABILITY PROPERTIES
Flash Point [Method]: >174°C (345°F) [ASTM D-92]
Flammable Limits (Approximate volume % in air): LEL: 0.9  UEL: 7.0
Autoignition Temperature: N/D

SECTION 6  ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES
In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

SPILL MANAGEMENT
**Product Name:** MOBIL VELOCITE OIL NO. 10  
**Revision Date:** 25 Mar 2010

---

**Land Spill:** Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

**Water Spill:** Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

**ENVIRONMENTAL PRECAUTIONS**

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

---

**SECTION 7 HANDLING AND STORAGE**

**HANDLING**

Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or ground procedures. However, bonding and grounds may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TC 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

**Static Accumulator:** This material is a static accumulator.

**STORAGE**

The container choice, for example storage vessel, may effect static accumulation and dissipation. Do not store in open or unlabelled containers. Keep away from incompatible materials.

---

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

Exposure limits/standards for materials that can be formed when handling this product: When mists / aerosols can occur, the following are recommended: 5 mg/m³ - ACGIH TLV, 10 mg/m³ - ACGIH STEL, 5 mg/m³ - OSHA PEL.

**NOTE:** Limits/standards shown for guidance only. Follow applicable regulations.

**ENGINEERING CONTROLS**

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.
PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

- No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

- No protection is ordinarily required under normal conditions of use.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

- No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS

See Sections 6, 7, 12, 13.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

GENERAL INFORMATION

- Physical State: Liquid
- Color: Amber
- Odor: Characteristic
- Odor Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION
Product Name: MOBIL VELOCITE OIL NO. 10
Revision Date: 25 Mar 2010
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Relative Density (at 15 C): 0.861
Flash Point [Method]: >174°C (345°F) [ASTM D-92]
Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0
Autoignition Temperature: N/D
Boiling Point / Range: > 316°C (600°F)
Vapor Density (Air = 1): >2 at 101 kPa
Vapor Pressure: < 0.013 kPa (0.1 mm Hg) at 20°C
Evaporation Rate (n-butyl acetate = 1): N/D
pH: N/A
Log Pow (n-Octanol/Water Partition Coefficient): > 3.5
Solubility in Water: Negligible
Viscosity: 22 cSt (22 mm²/sec) at 40°C | 4 cSt (4 mm²/sec) at 100°C
Oxidizing Properties: See Hazards Identification Section.

OTHER INFORMATION
Freezing Point: N/D
Melting Point: N/A
Pour Point: -21°C (-6°F)
DMSO Extract (mineral oil only), IP-346: < 3 %wt

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat. High energy sources of ignition.

MATERIALS TO AVOID: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

<table>
<thead>
<tr>
<th>Route of Exposure</th>
<th>Conclusion / Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
</tr>
<tr>
<td>Toxicity (Rat): LC50 &gt; 5000 mg/m³</td>
<td>Minimally Toxic. Based on test data for structurally similar materials.</td>
</tr>
<tr>
<td>Irritation: No end point data.</td>
<td>Negligible hazard at ambient/normal handling temperatures. Based on assessment of the components.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td></td>
</tr>
<tr>
<td>Toxicity (Rat): LD50 &gt; 5000 mg/kg</td>
<td>Minimally Toxic. Based on test data for structurally similar materials.</td>
</tr>
<tr>
<td><strong>Skin</strong></td>
<td></td>
</tr>
<tr>
<td>Toxicity (Rabbit): LD50 &gt; 5000 mg/kg</td>
<td>Minimally Toxic. Based on test data for structurally similar materials.</td>
</tr>
<tr>
<td>Irritation (Rabbit): Data available.</td>
<td>Negligible irritation to skin at ambient temperatures. Based on test data for structurally similar materials.</td>
</tr>
<tr>
<td><strong>Eye</strong></td>
<td></td>
</tr>
</tbody>
</table>
Irritation (Rabbit): Data available. May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.

CHRONIC/OTHER EFFECTS
Contains:
Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.

Additional information is available by request.

The following ingredients are cited on the lists below: None.

---REGULATORY LISTS SEARCHED---
1 = NTP CARC  2 = NTP SUS  3 = IARC 1  4 = IARC 2A  5 = IARC 2B  6 = OSHA CARC

SECTION 12  ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

ECOTOXICITY
Material -- Not expected to be harmful to aquatic organisms.

MOBILITY
Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

PERSISTENCE AND DEGRADABILITY
Biodegradation:
Base oil component -- Expected to be inherently biodegradable

BIOACCUMULATION POTENTIAL
Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

SECTION 13  DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS
Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.
REGULATORY DISPOSAL INFORMATION

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

SECTION 14 TRANSPORT INFORMATION

LAND (DOT): Not Regulated for Land Transport
LAND (TDG): Not Regulated for Land Transport
SEA (IMDG): Not Regulated for Sea Transport according to IMDG-Code
AIR (IATA): Not Regulated for Air Transport

SECTION 15 REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING: AICS, IECSC, DSL, EINECS, ENCS, KECI, PICCS, TSCA

EPCRA: This material contains no extremely hazardous substances.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

SARA (313) TOXIC RELEASE INVENTORY: This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

The following ingredients are cited on the lists below:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>List Citations</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIPHENYLAMINE</td>
<td>122-39-4</td>
<td>5</td>
</tr>
</tbody>
</table>
Product Name: MOBIL VELOCITE OIL NO. 10
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---REGULATORY LISTS SEARCHED---

| 1 = ACGIH ALL | 6 = TSCA 5a2 | 11 = CA P65 REPRO | 16 = MN RTK |
| 2 = ACGIH A1  | 7 = TSCA 5e  | 12 = CA RTK      | 17 = NJ RTK |
| 3 = ACGIH A2  | 8 = TSCA 6   | 13 = IL RTK      | 18 = PA RTK |
| 4 = OSHA Z    | 9 = TSCA 12b | 14 = LA RTK      | 19 = RI RTK |
| 5 = TSCA 4    | 10 = CA P65 CARC | 15 = MI 293   |

Code key: CARC=Carcinogen; REPRO=Reproductive

SECTION 16 OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:
Revision Changes:
Section 06: Notification Procedures - Header was modified.
Section 10: Stability and Reactivity - Header was modified.
Section 13: Disposal Recommendations - Note was modified.
Section 13: Empty Container Warning was modified.
Section 08: Personal Protection was modified.
Section 08: Hand Protection was modified.
Section 07: Handling and Storage - Handling was modified.
Section 07: Handling and Storage - Storage Phrases was modified.
Section 11: Dermal Lethality Test Data was modified.
Section 11: Oral Lethality Test Data was modified.
Section 05: Hazardous Combustion Products was modified.
Section 06: Accidental Release - Spill Management - Water was modified.
Section 09: Relative Density - Header was modified.
Section 09: Viscosity was modified.
Section 14: Sea (IMDG) - Header was modified.
Section 14: Air (IATA) - Header was modified.
Section 14: LAND (TDG) - Header was modified.
Section 14: LAND (DOT) - Header was modified.
Section 15: List Citations Table was modified.
Section 15: List Citation Table - Header was modified.
Section 14: LAND (DOT) - Default was modified.
Section 14: LAND (TDG) Default was modified.
Section 14: Sea (IMDG) - Default was modified.
Section 14: Air (IATA) - Default was modified.
Section 15: National Chemical Inventory Listing was modified.
Section 16: Code to MHCs was modified.
Section 08: Exposure limits/standards was modified.
Hazard Identification: OSHA - May be Hazardous Statement was modified.
Section 06: Notification Procedures was modified.
Section 09: Oxidizing Properties was modified.
Section 01: Company Contact Methods Sorted by Priority was modified.
Section 15: TSCA Class 2 Statement was deleted.

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Internal Use Only

MHC: 0B, 0B, 0, 0, 0, 0

PPEC: A

DGN: 2007302XUS (546684)

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Portable Allwik Economy Spill Kit in Yellow Bag

SORBENT PRODUCTS CO.

Fastenal Part No. (SKU): 1007705
Manufacturer Part No.: 107795
UNSPSC: 47131904
Manufacturer: SORBENT PRODUCTS CO.
Category: Safety > Spill Containment > Spill Response Kits

Wholesale Price: $62.81
Package Quantity: 1 (EA)

I do business with a local Fastenal store
I do not have an account with a local Fastenal store
Check another store for availability

Quantity 1 x 1 (EA)

Add to Cart

Product Details

Color: Yellow
Style: Allwik
Type: Spill Response Kit
Contents: (10) Pads, (2) Socks, Pair Nitrile Gloves, Instruction Sheet
Application: Plants, laboratories, work stations, construction sites - Spill Response Sorbents, MRO, Manufacturing, Place Holder, Slips Trips and Falls
Pad Length: 19”
Pad Width: 15”
Absorption Capacity: 5 gal / bale
Product Weight: 4.195 lbs.
Applications: Sorbents, MRO, Manufacturing, Place Holder, Slips Trips and Falls - Spill Response

Notes:
The Allwik[REG] Economy Portable Spill Kit comes in a highly visible yellow PVC bag and is "just right" for small spills of any material. This kit is the right price, the right size and the right value. Contents: (10) - 15” x 19” Pads (2) - 3” x 4’ SOCs (1) - Pair Nitrile Gloves (1) - Disposal Bag Instruction Sheet

The Allwik[REG] Economy Portable Spill Kit comes in a highly visible yellow PVC bag and is "just right" for small spills of any material. This kit is the right price, the right size and the right value. Contents include: Pads, SOCs, Nitrile Gloves, Disposal Bag and Goggles. Absorbency: 5 gal/bale

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# Product Details

<table>
<thead>
<tr>
<th><strong>Color:</strong></th>
<th>White</th>
</tr>
</thead>
<tbody>
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<td><strong>Length:</strong></td>
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<tr>
<td><strong>Material:</strong></td>
<td>Clay</td>
</tr>
<tr>
<td><strong>Style:</strong></td>
<td>Universal</td>
</tr>
<tr>
<td><strong>Type:</strong></td>
<td>Granular Absorbent</td>
</tr>
<tr>
<td><strong>Width:</strong></td>
<td>14&quot;</td>
</tr>
<tr>
<td><strong>Application:</strong></td>
<td>Absorbs spills</td>
</tr>
<tr>
<td><strong>Container Type:</strong></td>
<td>Bag</td>
</tr>
<tr>
<td><strong>Absorption Capacity:</strong></td>
<td>4.0 gal/bag</td>
</tr>
<tr>
<td><strong>Product Weight:</strong></td>
<td>50.0 lbs.</td>
</tr>
</tbody>
</table>

**Notes:**

These virtually dust free granules will absorb both aggressive and non-aggressive fluids including oil, acid, paint, ink and water. Use Oil-Dri to reduce hazards and slipping accidents by keeping floors dry. Quick-Sorb[REG] is specially designed to absorb up to twice as much fluid per pound as conventional clay. The smaller granules offer more surface area for greater absorption power. Strong granules improve traction and won't break down when saturated.

Premium clay absorbents undergo a superior moisture extraction process that increases absorption and minimizes dust. For use on oils, coolants, grease, water and other spills.