SAFETY DATA SHEET

1. Identification

Product identifier
Harvey Thread Cutting Oil

Other means of identification

Product code
3335E

Synonyms

Part Numbers
016035 016110 016165 016272 016324 016336 016365
016036 016115 016170 016273 016325 016337 016366
016050 016120 016190 016276-W 016326-W 016338 016390
016055 016150 016205 016277 016327 016341 016391
016060 016151 016215 016278 016328 016342 248674
016070 016153 016261 016279 016330 016343 403766
016100 016154 016264 016281 016331 016348 403774
016101 016155 016265 016320 016332 016350 Premier 481020
016102 016157 016266 016321 016333 016351 Premier 481020
016105 016160 016267 016322 016334 016353 Premier 481023

Recommended use
Lubricant for Cutting Threads

Recommended restrictions
None Known

Manufacturer/Importer/Supplier/Distributor information

Company Name
William H. Harvey Company

Address
4334 South 67th Street
Omaha, NE 68117

Telephone
402-331-1175

E-mail
info@oatey.com

Transport Emergency
Chemetrec 1-800-424-9300 (Outside the US 1-703-527-3887)

Emergency First Aid
1-877-740-5015

Contact person
MSDS Coordinator

2. Hazard(s) identification

Physical hazards
Not Classified.

Health hazards
Acute Toxicity Oral
Skin Corrosion/Irritation
Eye Damage/Irritation

OSHA defined hazards
Not Classified.

Label elements

Hazard symbol

Signal word
Warning

Hazard statement
Harmful if swallowed. Causes mild skin irritation. Cause eye irritation. May cause respiratory irritation.

Precautionary statement

Prevention
Keep container tightly closed. Wear protective gloves and eye protection. Wash thoroughly after handling. Avoid breathing fumes, or mist.

Response
IF ON SKIN: Rinse skin with water. Wash contaminated clothing before reuse.
IF SWALLOWED: Call a poison center or doctor if you feel unwell. Rinse Mouth. Do not induce vomiting. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.
Storage
Disposal
Hazard(s) not otherwise classified (HNOC)

Store in a well-ventilated space. Keep cool.
Dispose of contents/container in accordance with local regulations.
Used Oil may contain harmful impurities.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Hydrocarbon Mixture</td>
<td>64742-65-0</td>
<td>&gt;95</td>
</tr>
</tbody>
</table>

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Ingestion

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed.

Immediate medical attention is not required.

General information

Note to physician, treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media

Do not use water in a jet.

Specific hazards arising from the chemical

Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases, oxides of sulfur and phosphorous (smoke). Carbon monoxide.

Special protective equipment and precautions for firefighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Fire fighting equipment/instructions

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Specific methods

None

General fire hazards

None

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in “For non-emergency personnel”.

Methods and materials for containment and cleaning up

Large Spills: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

Small Spills: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.
Environmental precautions
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

7. Handling and storage
Precautions for safe handling
Use local exhaust ventilation if there is risk of inhalation of vapors, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials to prevent fires. Put on appropriate personal protective equipment (see section 8 of SDS). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection
Occupational exposure limits
US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil Mist, Mineral</td>
<td>TLV or PEL</td>
<td>5 mg/m³</td>
</tr>
</tbody>
</table>

US OSHA Permissible Exposure Limits

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
</table>

Biological limit values
Data Not available.

Appropriate engineering controls
No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Individual protection measures, such as personal protective equipment
Eye/face protection
Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection

Hand
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Other
Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection
Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Thermal hazards
None.

General hygiene considerations
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. Physical and chemical properties
Appearance
Physical state
Liquid
Form
Liquid
Color
Clear, light amber
Odor
Slight hydrocarbon
Odor threshold
Not available.
pH: Not applicable
Melting point/freezing point: No data available.
Initial boiling point and boiling range: Not determined
Flash point: > 340 °F (> 171°C)
Upper/lower flammability or explosive limits:
Flammability limit – lower (%): Not available
Flammability limit – upper (%): Not available
Explosive limit - lower (%): Not available
Explosive limit - upper (%): Not available
Vapor pressure: Not applicable
Vapor density: Not applicable
Relative density: 0.91
Solubility(ies): Negligible
Partition coefficient (n-octanol/water): >6 based on similar products
Auto-ignition temperature: Not applicable
Decomposition temperature: Not available
Viscosity, kinematic: 27.5 – 33.5 mm2/s @ 40 °C
Other information: VOC (Weight %): < 1% by weight, < 10 g/L

10. Stability and reactivity
Reactivity: The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.
Chemical stability: The product is stable.
Possibility of hazardous reaction: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid: Extreme temperature and direct sunlight.
Incompatible materials: Strong Oxidizing Agents.
Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information
Information on likely routes of exposure
Inhalation: Mist from processing.
Skin contact: Skin contact.
Eye contact: Eye contact.
Ingestion: No known significant effects or critical hazards.
Symptoms related to the physical, chemical and toxicological characteristics: No specific data.

<table>
<thead>
<tr>
<th>Information on likely routes of exposure</th>
<th>Acute Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
<td>Species</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Skin corrosion/irritation</th>
<th>May cause skin irritation after prolonged exposure. Prolonged exposure or repeated exposure without proper cleaning can clog pores of the skin.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Expected to be slightly irritating.</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>Inhalation of vapors or mists may cause irritation to the respiratory system.</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>This product is not expected to cause skin irritation.</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Not considered a mutagenic hazard</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No component of this product is identified as a probable, possible, or confirmed carcinogen by IARC, NTP, Monographs, or OSHA.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td></td>
</tr>
</tbody>
</table>

Harvey Thread Cutting Oil
SDS #33555E  Version #: 01  Revision date: Issue date: 12-May-2015
Reproductive toxicity
No known significant effects or critical hazards.

Specific target organ toxicity
Not expected to be a hazard.
Rest expected to be a hazard.

Aspiration Hazard
Contains Distillates (petroleum), hydrotreated – Which is a category 1 Aspiration Hazard. The likelihood of aspirating the product in this form is very low due to the high viscosity.

Chronic effects
Not Classified.

Further information
Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and may present risks to health and the environment on disposal. Used oil should be handled with caution and skin contact should be avoided when possible.

12. Ecological information

Ecotoxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Results</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Not Available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bio accumulative potential</td>
<td>Not Available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mobility in soil</td>
<td>Liquid under most conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other adverse effects</td>
<td>No known significant effects of critical hazards.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

13. Disposal considerations

Disposal instructions
The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Local disposal regulations
Not Applicable

Hazardous waste code
Not Applicable

14. Transportation information

DOT

| UN number | Not Regulated |
| UN Proper Shipping Name | |
| Transportation Hazard classes | |
| Packing group | |

IATA

| UN number | Not Regulated |
| UN Proper Shipping Name | |
| Transportation Hazard classes | |
| Packing group | |

IMDG

| UN number | Not Regulated |
| UN Proper Shipping Name | |
| Transportation Hazard classes | |
| Packing group | |
| Environmental hazards | |
| Marine pollutant | |
15. Regulatory information

International Inventories
All the substances contained in this product are listed or exempted from listing in the following inventories:
U.S.A. (TSCA)

U.S. Federal Regulations
SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Category</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Sudden Release of Pressure Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>no</td>
</tr>
</tbody>
</table>

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations
California Proposition 65
This product does not contain any Proposition 65 chemicals.

16. Other information, including date of preparation or last revision

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issue Date</td>
<td>12-May-2015</td>
</tr>
<tr>
<td>Revision Date</td>
<td>-</td>
</tr>
<tr>
<td>Version #</td>
<td>01</td>
</tr>
<tr>
<td>HMIS Rating</td>
<td>Health: 1</td>
</tr>
<tr>
<td></td>
<td>Flammability: 1</td>
</tr>
<tr>
<td></td>
<td>Physical Hazards: 0</td>
</tr>
</tbody>
</table>

Disclaimer
William H. Harvey, an Oatey Affiliate cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user’s responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.