

Issue Date: 09-Oct-2014

Revision Date: 02-Oct.-2019

Version 5

1. IDENTIFICATION

| | |
|--------------------------------------|--|
| Product Name | APEX 7700 EP SEMI-SYN COOLANT |
| Other means of identification | A-7704-05 A-7704-55 A-7704-275 (No dye) A-7705-05 A-7705-55 A-7705-275 (Blue) |
| Recommended Use | Metalworking lubricant. |
| Supplier Address | Ashburn Chemical Technologies 7403 Wright Rd Houston, TX 77041 |
| Company Phone Number | 832-399-1000 |
| Emergency Telephone (24 hr) | INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America) |

2. HAZARDS IDENTIFICATION

Classification Classified according to the US OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (WHMIS 2015)

| | |
|-------------------------|-------------|
| Skin Irritant | Category 3 |
| Eye irritation | Category 2B |
| Acute toxicity – (Oral) | Category 5 |

Signal Word **WARNING**

Hazard Statements
H316 Causes mild skin irritation
H320 Causes eye irritation
H303 May be harmful if swallowed

Precautionary Statements - Prevention

P264 Wash face, hands and any exposed skin thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P305+P351+P338
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 If eye irritation persists: Get medical advice/attention Immediately call a poison center or doctor/physician
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P362+P364 Take off contaminated clothing and wash it before reuse.
P332+P313 If skin irritation occurs: Get medical advice/attention

Precautionary Statements - Disposal

P501 Dispose of contents/container to an approved waste disposal plant

Other Hazards

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No | Weight-% |
|---|------------|----------|
| PET distillates, hydrotreated heavy naphthenic | 64742-52-5 | 10-20 |
| Poly(oxy-1,2-ethanediyl), .alpha.-(9Z)-9-octadecen-1-yl-.omega.-hydroxy- | 9004-98-2 | 3-6 |
| Dicyclohexylamine | 101-83-7 | < 2 |

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES**First Aid Measures**

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| General Advice | Provide this SDS to medical personnel for treatment. |
| Eye Contact | Flush with large amounts of water for 15 minutes. Lift the upper and lower eyelid to ensure complete flushing of the eye(s). Remove contact lens, if worn. Get medical attention if irritation occurs. |
| Skin Contact | Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. |
| Inhalation | Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation. |
| Ingestion | Do not induce vomiting. Seek immediate medical attention/advice. |

Most important symptoms and effects

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| Symptoms | May cause eye, skin and respiratory tract irritation. May include redness, drying and cracking of skin. May cause irritation to the mucous membranes and upper respiratory tract. |
|-----------------|---|

Indication of any immediate medical attention and special treatment needed

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|---------------------------|------------------------|
| Notes to Physician | Treat symptomatically. |
|---------------------------|------------------------|

5. FIRE-FIGHTING MEASURES

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| Suitable Extinguishing Media | Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames. |
| Unsuitable Extinguishing Media | Not determined. |
| Specific Hazards Arising from the Chemical | Not determined. |
| Hazardous Combustion Products | Smoke, Fume, Incomplete combustion products, Oxides of carbon. |
| Protective equipment / Precautions for firefighters | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |

6. ACCIDENTAL RELEASE MEASURES

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| Personal Precautions | Wear protective clothing as described in Section 8 of this safety data sheet. |
| Environmental Precautions | Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information. |
| Methods for Containment | Prevent further leakage or spillage if safe to do so. Absorb or cover with dry earth, sand or other non-combustible material. |
| Methods for Clean-Up | Use clean non-sparking tools to collect absorbed material. Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. Contain large spills and pump into a suitable tank for disposal. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. For waste disposal, see section 13 of the SDS. |

7. HANDLING AND STORAGE

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|--------------------------------|---|
| Advice on Safe Handling | Handle in accordance with good industrial hygiene and safety practice. Wash face, hands, and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Use only with adequate ventilation. Avoid breathing vapors or mists. Use personal protection recommended in Section 8. |
| Storage Conditions | Keep container tightly closed and store in a cool, dry and well-ventilated place. Do not store in open or unlabeled containers. Store away from heat and open flame. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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| Exposure Guidelines | No exposure limits noted for ingredient(s) The following information is given as general guidance |
| Appropriate engineering controls | Maintain eye wash fountain and quick-drench facilities in work area. |
| Personal Protective Equipment | |
| Eye/Face Protection | If contact is likely, safety glasses with side shields are recommended. |
| Skin and Body Protection | If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended. |
| Respiratory Protection | Ensure adequate ventilation, especially in confined areas. |
| General Hygiene Considerations | Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before reuse. |

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

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|-------------------------------------|-------------------------|-----------------------|----------------|
| Physical State | Liquid | Odor | Not determined |
| Appearance | transparent | Odor Threshold | Not determined |
| Color | Amber / Blue (with dye) | | |
| Property | Values | Remarks | Method |
| pH | 9.9-10.4 | | |
| Melting Point/Freezing Point | -7 to 0 °C / 19-32 °F | | |
| Boiling Point/Boiling Range | Not determined | | |

| | | |
|------------------------------|----------------|-----------|
| Flash Point | Not determined | TCC |
| Evaporation Rate | < 1.0 | |
| Flammability (Solid, Gas) | Not determined | |
| Upper Flammability Limits | Not determined | |
| Lower Flammability Limit | Not determined | |
| Vapor Pressure | Not determined | |
| Vapor Density | Not determined | |
| Specific Gravity | 1.02 – 1.04 | (1=Water) |
| Water Solubility | Emulsifiable | |
| Solubility in other solvents | Not determined | |
| Partition Coefficient | Not determined | |
| Auto-ignition Temperature | Not determined | |
| Decomposition Temperature | Not determined | |
| Kinematic Viscosity | 78.0 cSt | |
| Dynamic Viscosity | Not determined | |
| Explosive Properties | Not determined | |
| Oxidizing Properties | Not determined | |

10. STABILITY AND REACTIVITY

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|------------------------------------|---|
| Reactivity | Not reactive under normal conditions |
| Chemical Stability | Stable under recommended storage conditions. |
| Possibility of Hazardous Reactions | None under normal processing. |
| Conditions to Avoid | Heat, flames and sparks. |
| Incompatible Materials | Strong oxidizing agents. |
| Hazardous Decomposition Products | Thermal decomposition and combustion are not expected to occur except under extreme conditions. |

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

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|--------------|--|
| Eye Contact | May be irritating to eyes. |
| Skin Contact | Prolonged contact may cause redness and irritation. May cause an allergic skin reaction. |
| Inhalation | Inhalation of vapors or mists in high concentration may cause slight irritation of respiratory system. |
| Ingestion | Do not ingest. May cause nausea, vomiting, diarrhea, and irritation to the mouth, throat, and gastrointestinal system. |

Component Information

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|----------------------|--------------------------|----------------------|
| Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5 | > 5000 mg/kg (Rat) | > 5000 mg/kg (Rabbit) | > 5 mg/L (Rat) 4 h |
| Dicyclohexylamine 101-83-7 | = 200 mg/kg (Rat) | 200 - 316 mg/kg (rabbit) | > 1.4 mg/l (rat) 6h |

Information on toxicological effects

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|----------|--|
| Symptoms | Please see section 4 of this SDS for symptoms. |
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|------------------------|--|
| Sensitization | May cause an allergic skin reaction. |
| Carcinogenicity | The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346. |
| Acute Toxicity | ATE for the mixture (LC50) Oral: 8966 mg/kg Dermal: 0 mg/kg Inhalation (vapor) : 0 mg/kg |

12. ECOLOGICAL INFORMATION

Ecotoxicity Harmful to aquatic life with long lasting effects.

Component Information

| Chemical Name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|--|---|----------------------------|--|
| Pet distillates, hydrotreated heavy naphthenic 64742-52-5 | | 5000: 96 h Oncorhynchus mykiss mg/L LC50 | | 1000: 48 h Daphnia magna mg/L EC50 |
| Dicyclohexylamine 101-83-7 | 3.3 mg/l - 72 h EC50 - Desmodesmus subspicatus (green algae) | 62: 96 h Brachydanio rerio mg/L LC50 static | | 8 mg/l - 48 h Immobilization EC50 - Daphnia magna (Water flea) |

Persistence/Degradability Not determined.

Bioaccumulation Not determined.

Mobility Not determined

Other Adverse Effects Not determined

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

| Chemical Name | TSCA | DSL | NDSL | EINECS | ELINCS | ENCS | IECSC | KECL | INSQ | AICS |
|--|------|-----|------|--------|--------|------|-------|------|------|------|
| Petroleum distillates, hydrotreated heavy naphthenic | X | X | | X | | X | X | X | X | X |
| Poly(oxy-1,2-ethanediyl), .alpha.-(9Z)-9-octadecen-1-yl -omega.-hydroxy- | X | X | | X | | X | X | X | X | X |

| | | | | | | | | | | |
|-------------------|---|---|--|---|--|---|---|---|---|---|
| Dicyclohexylamine | X | X | | X | | X | X | X | X | X |
|-------------------|---|---|--|---|--|---|---|---|---|---|

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances
INSQ - National Inventory of Chemical Substances

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).

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

California Prop 65

This product does not contain any Prop 65 Chemical

16. OTHER INFORMATION

NFPA**Health Hazards**

1

Flammability

0

Instability

0

Special Hazards

None

HMIS**Health Hazards**

1

Flammability

0

Physical Hazards

0

Personal Protection

Determined by end user

Issue Date:

06-Oct-2014

Revision Date:

15-Jul-2016 Complied with WHMIS 2015
 25-Apr-2017 Updated Sec 2
 29-Nov.-2017 Updated Sec 3
 02-Oct-2019 Formula Change DL

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet