Safety Data Sheet

Issue Date: 28-Aug-2014 **Review Date:** 15-Sept.-2017 **Version** 2

1. IDENTIFICATION

Product Identifier
Product Name **APEX 6440 SYNTHETIC COOLANT (Blue)**

Other means of identification
SDS #
Item # A-6441

Recommended use of the chemical and restrictions on use
Recommended Use Machining and grinding metal.

Details of the supplier of the safety data sheet
Supplier Address

ASHBURN CHEMICAL TECHNOLOGIES
7403 Wright Rd.,
Houston, TX 77041

Emergency Telephone Number
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

Appearance Transparent **Physical State** Liquid

Classification: According to OSHA 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation (WHMIS 2015)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Reproductive toxicity	Category 1B

Hazards Not Otherwise Classified (HNOC)
May be harmful if swallowed

Signal Word **Danger**

Hazard Statements
Causes skin irritation
Causes serious eye irritation
May damage fertility or the unborn child

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response
If exposed or concerned: Get medical advice/attention
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 advice/attention
IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse
If skin irritation occurs: Get medical advice/attention

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Other Hazards
Harmful to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Monoethanolamine	141-43-5	1-5
Borax	1303-96-4	1-5
Carboxylic acids, amines salts	68937-73-5	1-10

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

General Advice Provide this SDS to medical personnel for treatment.

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention..

Skin Contact Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. If skin irritation occurs: Get medical advice/ attention

Inhalation Remove source of exposure or move person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell or are concerned.

Ingestion Eye contact may cause eye irritation, redness, tearing, blurred vision
Prolonged skin contact may cause redness and irritation
Maybe harmful if inhaled.
Swallowing may cause abdominal irritation, nausea, vomiting and diarrhea

Most important symptoms and effects

Symptoms May cause skin and eye irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable / Unsuitable Extinguishing Media
Use water fog, foam, dry chemical, alcohol resistant foam or carbon dioxide (CO2)
DO NOT use straight streams of water (could cause fire to spread).

Specific Hazards Arising from the Chemical
Not determined.

Hazardous Combustion Products
Carbon oxides.

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

Personal Precautions
Avoid contact with skin or eyes.
Do not breathe dust/fume/gas/mist/vapors/spray.
See SECTION 8 for Personal Protective Equipment.

Environmental Precautions
Prevent entry into drains, waterways, rivers, lakes, sewers, basements or confined areas.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
See SECTION 12 for Ecological Information.

Methods for Clean-Up
Absorb or cover with dry earth, sand or other non-combustible 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.
See SECTION 13 for Waste Disposal.

7. HANDLING AND STORAGE

Advice on Safe Handling
Handle in accordance with good industrial hygiene and safety practice.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wash face, hands, and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when handling this product.
Wash contaminated clothing before reuse.
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.
Storage temperature 5-40°C (41-104°F). Store locked up.

Incompatible Materials
Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Borax 1303-96-4	STEL: 6 mg/m^3 inhalable fraction TWA: 2 mg/m^3 inhalable fraction	(vacated) TWA: 10 mg/m^3	TWA: 5 mg/m^3
Monoethanolamine 141-43-5	STEL: 6 ppm TWA: 3 ppm	TWA: 3 ppm TWA: 6 mg/m^3 (vacated) TWA: 3 ppm (vacated) TWA: 8 mg/m^3 (vacated) STEL: 6 ppm (vacated) STEL: 15 mg/m^3	IDLH: 30 ppm TWA: 3 ppm TWA: 8 mg/m^3 STEL: 6 ppm STEL: 15 mg/m^3

Appropriate engineering controls

Engineering Controls Maintain eye wash fountain and quick-drench facilities in work area.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side shields.

Skin and Body Protection 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 and lauder before use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid		
Appearance	Transparent	**Odor**	Not determined
Color	Blue to blue-green	**Odor Threshold**	Not determined
Property	**Values**	**Remarks • Method**	
pH	9.3-9.7		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	100 °C / 212 °F	(at 760 mm Hg)	
Flash Point	Not flammable		
Evaporation Rate	< 1	(butyl acetate = 1)	
Flammability (Solid, Gas)	Not determined		
Upper Flammability Limits	Not determined		
Lower Flammability Limit	Not determined		
Vapor Pressure	< 1.0		
Vapor Density	< 1.0		
Specific Gravity	1.065		
Water Solubility	Completely soluble		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Auto-ignition Temperature	Not determined		
Decomposition Temperature	Not determined		
Kinematic Viscosity	Not determined		
Dynamic Viscosity	Not determined		

10. STABILITY AND REACTIVITY

Reactivity Not reactive under normal conditions.

Chemical Stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

Conditions to Avoid Incompatible Materials.

Incompatible Materials Strong acids. Strong bases.

Hazardous Decomposition Products Thermal decomposition and combustion are not expected to occur except under extreme conditions. See SECTION 5 in the event of fire .

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye Contact Causes serious eye irritation.

Skin Contact Causes skin irritation.

Inhalation May be harmful if inhaled

Ingestion May be harmful if swallowed

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Borax 1303-96-4	= 2660 mg/kg (Rat)	-	-
Monoethanolamine 141-43-5	= 1720 mg/kg (Rat)	= 1 mL/kg (Rabbit) = 1025 mg/kg (Rabbit)	-

Symptoms Please see section 4 of this SDS for symptoms.

Information on physical, chemical and toxicological effects

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Chemical Name	ACGIH	IARC	NTP	OSHA
Triethanolamine		Group 3		

IARC (International Agency for Research on Cancer)
Group 3 IARC components are "not classifiable as human carcinogens"

Reproductive toxicity May damage fertility or the unborn child.

Numerical measures of toxicity Not determined

Acute Toxicity ATE for the mixture (LD50) Oral: 2928 mg/kg

Unknown Acute Toxicity 55-60% of the mixture consists of ingredient(s) of unknown toxicity (Oral)

12. ECOLOGICAL INFORMATION

Ecotoxicity Harmful to aquatic life with long lasting effects

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Triethanolamine 102-71-6	216: 72 h Desmodesmus subspicatus mg/L EC50 169: 96 h Desmodesmus subspicatus mg/L EC50	10600 - 13000: 96 h Pimephales promelas mg/L LC50 flow-through 1000: 96 h Pimephales promelas mg/L LC50 static 450 - 1000: 96 h Lepomis macrochirus mg/L LC50 static		1386: 24 h Daphnia magna mg/L EC50

Monoethanolamine 141-43-5	15: 72 h Desmodesmus subspicatus mg/L EC50	227: 96 h Pimephales promelas mg/L LC50 flow-through 3684: 96 h Brachydanio rerio mg/L LC50 static 300 - 1000: 96 h Lepomis macrochirus mg/L LC50 static 114 - 196: 96 h Oncorhynchus mykiss mg/L LC50 static 200: 96 h Oncorhynchus mykiss mg/L LC50 flow-through		65: 48 h Daphnia magna mg/L EC50

Persistence/Degradability Biodegradation: Expected to be slowly biodegradable.

Bioaccumulation Not determined.

Mobility

Chemical Name	Partition Coefficient
Triethanolamine 102-71-6	-2.53
Monoethanolamine 141-43-5	-1.91

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.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Borax 1303-96-4	Toxic

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories The component(s) of this product are reported in the following inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Borax 1303-96-4	x	x				x	x	x	x	x

Legend:

TSCA *- United States Toxic Substances Control Act Section 8(b) Inventory*

DSL/NDSL *- 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*

US Regulations

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 311/312 Hazard Categories This material, as supplied, does not contain any substances subject to the requirements of SARA Sections 311/312 (40 CFR 370)

SARA 313 Not determined

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Borax 1303-96-4	X	X	X
Monoethanolamine 141-43-5	X	X	X

16. OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	1	0	0	Not determined
HMIS	**Health Hazards**	**Flammability**	**Physical Hazards**	**Personal Protection**
	1	0	0	Not determined

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End of Safety Data Sheet