

Issue Date: 24-Mar-2015

Review Date: 28-Nov.-2018

Version 1

## 1. IDENTIFICATION

<b>Product Name</b>	<b>APEX 6590 SYNTHETIC COOLANT</b>
<b>Other means of identification</b>	
Item#	A-6590-05    A-6590-55    A-6500-275 (with Blue Dye) A-6591-275 (no dye)
<b>Recommended Use</b>	Machining and grinding metal.
<b>Supplier Address</b>	Ashburn Chemical Technologies 7403 Wright Rd Houston, TX 77041
<b>Company Phone Number</b>	832-399-1000
<b>Emergency Telephone (24 hr)</b>	INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

<b>Classification</b>	Classified according to the US OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (WHMIS 2015)						
	<table> <tr> <td>Skin Irritant</td><td>Category 2</td></tr> <tr> <td>Eye Corrosion</td><td>Category 2</td></tr> <tr> <td>Reproductive Toxicity</td><td>Category 1B</td></tr> </table>	Skin Irritant	Category 2	Eye Corrosion	Category 2	Reproductive Toxicity	Category 1B
Skin Irritant	Category 2						
Eye Corrosion	Category 2						
Reproductive Toxicity	Category 1B						
<b>Signal Word</b>	<b>Danger</b>						
<b>Hazard Statements</b>	H315 Causes skin irritation H319 Causes serious eye irritation H360 May damage fertility or the unborn child						



### Precautionary Statements - Prevention

P201 Obtain special instructions before use  
 P202 Do not handle until all safety precautions have been read and understood  
 P264 Wash face, hands and any exposed skin thoroughly after handling  
 P280 Wear protective gloves/protective clothing/eye protection/face protection

### Precautionary Statements - Response

P308+P313 If exposed or concerned: Get medical advice/attention  
 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

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 – Storage** P405 Store locked up

**Precautionary Statements - Disposal** P501 Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Other Identifiers
Neodecanoic Acid	26896-20-8	5-10	Versatic 10 Acid
Monoethanolamine	141-43-5	1-5	2-aminoethanol
Borax	1303-96-4	1-5	Sodium tetraborate decahydrate

\*\*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

<b>General Advice</b>	Provide this SDS to medical personnel for treatment.
<b>Eye Contact</b>	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. If eye irritation persists: Get medical advice/attention.
<b>Skin Contact</b>	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.
<b>Inhalation</b>	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.
<b>Ingestion</b>	Do not induce vomiting without medical advice. Seek immediate medical attention/advice.

#### Most important symptoms and effects

<b>Symptoms</b>	May cause skin and eye irritation.
<b>Notes to Physician</b>	Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

<b>Suitable / Unsuitable Extinguishing Media</b>	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).
<b>Specific Hazards Arising from the Chemical</b>	Not determined.
<b>Hazardous Combustion Products</b>	Carbon oxides.
<b>Protective equipment / Precautions for firefighters</b>	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, protective equipment and emergency procedures

<b>Personal Precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
<b>Environmental Precautions</b>	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 and material for containment and cleaning up

<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so. Absorb or cover with dry earth, sand or other non-combustible material.
<b>Methods for Clean-Up</b>	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

### Precautions for safe handling

<b>Advice on Safe Handling</b>	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. Wash contaminated clothing before reuse. Use personal protection recommended in Section 8. Do not breathe vapors or spray mist. Do not eat, drink or smoke when handling this product.
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### Conditions for safe storage, including any incompatibilities

<b>Storage Conditions</b>	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
<b>Incompatible Materials</b>	Strong acids. Strong bases.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

#### *Component Information*

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

### Appropriate engineering controls

<b>Engineering Controls</b>	Maintain eye wash fountain and quick-drench facilities in work area.
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**Individual protection measures, such as personal protective equipment**

<b>Eye/Face Protection</b>	If contact is likely, safety glasses with side shields are recommended.
<b>Skin and Body Protection</b>	If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.
<b>Respiratory Protection</b>	Ensure adequate ventilation, especially in confined areas.
<b>General Hygiene Considerations</b>	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**

<b>Physical State</b>	Liquid	<b>Odor</b>	Not determined
<b>Appearance</b>	Transparent	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Amber (no dye) Blue (dyed)		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>	9.3 – 9.7		
<b>Melting Point/Freezing Point</b>	Not determined		
<b>Boiling Point/Boiling Range</b>	100 °C / 212 °F	(at 760 mm Hg)	
<b>Flash Point</b>	Not flammable		
<b>Evaporation Rate</b>	< 1	(butyl acetate = 1)	
<b>Flammability (Solid, Gas)</b>	Not determined		
<b>Upper Flammability Limits</b>	Not determined		
<b>Lower Flammability Limit</b>	Not determined		
<b>Vapor Pressure</b>	< 1.0		
<b>Vapor Density</b>	< 1.0		
<b>Specific Gravity</b>	1.06 -1.07		
<b>Water Solubility</b>	Completely soluble		
<b>Solubility in other solvents</b>	Not determined		
<b>Partition Coefficient</b>	Not determined		
<b>Auto-ignition Temperature</b>	Not determined		
<b>Decomposition Temperature</b>	Not determined		
<b>Kinematic Viscosity</b>	Not determined		
<b>Dynamic Viscosity</b>	Not determined		

**10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	Not reactive under normal conditions.
<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Conditions to Avoid</b>	Incompatible Materials.
<b>Incompatible Materials</b>	Strong acids. Strong bases.
<b>Hazardous Decomposition Products</b>	Thermal decomposition and combustion are not expected to occur except under extreme conditions.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### *Product Information*

<b>Eye Contact</b>	Causes serious eye irritation.
<b>Skin Contact</b>	Causes skin irritation.
<b>Inhalation</b>	Do not inhale.
<b>Ingestion</b>	May cause gastrointestinal irritation or diarrhea.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Neodecanoic Acid 26896-20-8	= 2700 mg/kg ( Rat )	> 3640 mg/kg ( Rat )	-
Borax 1303-96-4	= 2660 mg/kg ( Rat )	-	-
Monoethanolamine 141-43-5	= 1720 mg/kg ( Rat )	= 1 mL/kg ( Rabbit ) = 1025 mg/kg ( Rabbit )	-

### Information on physical, chemical and toxicological effects

<b>Symptoms</b>	Please see section 4 of this SDS for symptoms.
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### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Carcinogenicity</b>	Not determined
<b>Reproductive toxicity</b>	May damage fertility or the unborn child.

<b><u>Numerical measures of toxicity</u></b>	Not determined
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## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
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#### *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
Neodecanoic Acid 26896-20-8		32: 96 h Lepomis macrochirus mg/L LC50 static		47.11: 48 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
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**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

**Waste Treatment Methods**

**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.

**TDG** Not regulated

**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	Y	Y				Y	Y	Y	Y	Y

**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*

**Canada's WHMIS Classifications**

D-1B: Material Causing immediate and serious Toxic Effects (Very Toxic)  
 D-2B: Toxic Material Causing Other Toxic Effects (Toxic)

**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
Triethanolamine 102-71-6	X	X	X
Borax 1303-96-4	X	X	X
Monoethanolamine 141-43-5	X	X	X

**16. OTHER INFORMATION****NFPA****Health Hazards**

1

**Flammability**

0

**Instability**

0

**Special Hazards**

Not determined

**HMIS****Health Hazards**

1

**Flammability**

0

**Physical Hazards**

0

**Personal Protection**

Not determined

Issue Date:

24-Mar-2015

Revision Date/Notes

Reviewed and updated:

11-Nov-2018

**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