

Issue Date: 25-Sep-2019

Revision Date:

Version 1

1. IDENTIFICATION

Product Identifier

Product Name APEX 3500TM SYNTHETIC

Other means of identification

SDS

 Item # A-3505-05
 A-3505-55
 A-3505-275

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

Classification

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

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

Signal Word

Danger

Hazard Statements

 H315: Causes skin irritation
 H318: Causes serious eye damage
 H360: May damage fertility or the unborn child


Precautionary Statements - Prevention

P202: Do not handle until all safety precautions have been read and understood

P280: Wear protective gloves/protective clothing/eye protection/face protection

P264: Wash face, hands and any exposed skin thoroughly after handling

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+313: If eye irritation persists: Get medical advice/attention

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P332+313: If skin irritation or rash 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-%
Monoethanolamine	141-43-5	3-5
Triethanolamine	4719-04-4	10-15
Disodium tetraborate decahydrate	1303-96-4	< 1.0

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

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.

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 without medical advice. Seek immediate medical attention/advice.

Most important symptoms and effects**Symptoms**

May cause skin and eye irritation.

The product contains a small amount of sensitizing substance which may provoke an allergic reaction among sensitive individuals in contact with skin.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

May be irritating to skin in some sensitive individuals, especially after prolonged and/or repeated contact.

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

Nitrogen 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

Wear protective clothing as described in Section 8 of this safety data sheet.

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. Do not breathe vapors or spray mist. Do not eat, drink or smoke when handling this product. Wash face, hands, and any exposed skin thoroughly after handling. 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.

Incompatible Materials

Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Monoethanolamine 141-43-5	STEL: 6 ppm TWA: 3 ppm	TWA: 3 ppm TWA: 6 mg/m ³	IDLH: 30 ppm TWA: 3 ppm TWA: 8 mg/m ³ STEL: 6 ppm STEL: 15 mg/m ³
Disodium tetraborate decahydrate 1303-96-4	STEL: 6 mg/m ³ inhalable fraction TWA: 2 mg/m ³ inhalable fraction		TWA: 5 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 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

Physical State	Liquid	Odor	Mild amine
Appearance	Transparent	Odor Threshold	Not determined
Color	Blue		
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH	10.0-11.0		
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	1.025-1.050		
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		
Explosive Properties	Not determined		
Oxidizing Properties	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.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye Contact	Causes serious eye damage.
Skin Contact	Causes skin irritation.
Inhalation	Do not inhale.
Ingestion	May cause gastrointestinal irritation or diarrhea.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Monoethanolamine 141-43-5	= 1720 mg/kg (Rat)	= 1,015 mg/kg (Rabbit)	-
Triethanolamine 102-71-6	>2000 mg/kg (Rat)	= 4,190 mg/kg (Rat)	-
Disodium tetraborate decahydrate 1303-96-4	= 4500 mg/kg (Rat)	-	-

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	May cause an allergic skin reaction.
Carcinogenicity	Not information available
Reproductive toxicity	May damage fertility or the unborn child.
STOT - repeated exposure	Causes damage to organs through prolonged or repeated exposure.

Numerical measures of toxicity Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Monoethanolamine 141-43-5	static test EC50 - Selenastrum capricornutum (green algae)-2.8 mg/l-72h (OECD Test Guideline 201)	semi-static test LC50 - Cyprinus carpio (Carp) - 150 mg/l - 96 h	EC50 - Pseudomonas putida - 110 mg/l - 17 h (DIN 38 412 Part 8)	EC50 - Daphnia magna (Water flea) - 65 mg/l - 48 h
Disodium tetraborate decahydrate 1303-96-4	IC50 - Desmodesmus subspicatus (green algae) - 158 mg/l - 96 h	-	-	EC50 - Daphnia magna (Water flea) - 1,085 - 1,402 mg/l - 48 h
Triethanolamine 102-71-6	EC50 Desmodesmus subspicatus 216 mg/L (72 hours)	LC50 Pimephales promelas 10,600 - 13,000 mg/L (96 hours)	-	-

Persistence/Degradability Biodegradation: Expected to be slowly biodegradable.

Bioaccumulation Not determined.

Mobility

Chemical Name	Partition Coefficient
Triethanolamine 102-71-6	-2.3

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
Disodium tetraborate decahydrate 1303-96-4	Toxic

14. TRANSPORT INFORMATION

US 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
Disodium tetraborate decahydrate 1303-96-4	X	X				X	X	X	X	X

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

Canada's CPR (WHMIS1988) Classifications

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

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 Reproductive toxicity

SARA 313 SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Monoethanolamine 141-43-5	X	X	X
Disodium tetraborate decahydrate 1303-96-4	X	X	X

16. OTHER INFORMATION

NFPA	Health Hazards	Flammability	Instability	Special Hazards
	2	0	0	none
HMIS	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	0	0	Determined by end user
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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