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Version:

1. IDENTIFICATION

Product Identifier

Product Name **APEX 5400 WSF**

Other means of identification

SDS # A-5400

ITEM #

Recommended use of the chemical and restrictions on use

Recommended Use

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

Skin irritation	Category 2
Serious eye irritation	Category 2A

Signal Word

WARNING



Hazard Statements

H315 Causes skin irritation
 H319 Causes serious eye irritation

Precautionary Statements

P264 Wash face, hands and any exposed skin thoroughly after handling.
 P280 Wear protective gloves/protective clothing/eye protection/face protection
 P321 Specific treatment (see instructions on this label).
 P362 Take off contaminated clothing.

Precautionary Statements - Response

P302+P352 IF ON SKIN: Wash with plenty of soap and water
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.

Precautionary Statements - Storage

P401 Store in accordance with local and federal guidelines

Precautionary Statements - Disposal

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
MEA	141-43-5	1-5
N-Butylethanolamine	111-75-1	1-5
Proprietary emulsifier	proprietary	5-10
Isononanoic Acid	3302-10-1	1-5
Undecanedioic Acid	1852-04-6	1-2
Dodecanedioic Acid	693-23-2	1-2

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**

General Advice	If you feel unwell, seek medical advice. Show the label where possible.
Eye Contact	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Then consult a doctor.
Skin Contact	Wash with water and soap and rinse thoroughly
Inhalation	Remove from further exposure. Use adequate respiratory protection. Seek immediate medical assistance.
Ingestion	Rinse mouth. Do not induce vomiting without medical advice. Seek immediate medical attention/advice.

Most important symptoms and effects

Symptoms	No further relevant information available
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Indication of any immediate medical attention and special treatment needed

Notes to Physician

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Use firefighting measures that suit the environment.
Specific Hazards Arising from the Substance/Mixture	No further relevant information available.
Hazardous Combustion Products	None-known

**Protective equipment /
Precautions for firefighters** No special measures required.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Wear protective equipment.
Keep unprotected persons away

Environmental Precautions Dilute with plenty of water
Do not allow to enter sewers/ surface or ground water

Methods for Clean-Up Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose contaminated material as waste according to SECTION 13.
Ensure adequate ventilation.

Reference to other sections See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. HANDLING AND STORAGE

Advice on Safe Handling No special precautions are necessary if used correctly. Wear all appropriate Personal Protective Equipment (PPE).

Information about protection against explosions and fires No special measures required.

Storage Conditions Keep containers closed when not in use, store in original containers.

Incompatible Materials None known

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Monoethanolamine	3ppm / 6ppm	3 ppm / 6 mg/m3	REL 3ppm / 8 mg/m3 STEL 6ppm / 15 mg/m3
Boric Acid	OEL 2 mg/m3 TWA STEL 6 mg/m3 15 min	15 mg/m3 (total dust) 5 mg/m3 (respirable dust)	-

Legend:

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety and Health Administration

NIOSH: National Institute for Occupational Safety and Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

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

Individual protection measures, such as personal protective equipment

General protective and hygienic measures Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin

Eye/Face Protection Tightly sealed goggles

Skin and Body Protection

Wear chemical-resistant gloves (butyl rubber or neoprene). Protective gloves should be inspected frequently and discarded when they exhibit cuts, tears, pinholes, or signs of excessive wear.
Personal protective clothing must be selected according to the concentration and amount of the substance at the specific workplace.

Respiratory Protection

Not required

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Mild
Appearance	Clear	Odor Threshold	Not determined
Color			
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH	9.3 – 9.7		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	Not determined		
Flash Point	> 100 °C / 212 °F		
Evaporation Rate	Not determined	(butyl acetate = 1)	
Flammability (Solid, Gas)	Not determined		
Upper Flammability Limits	Not determined		
Lower Flammability Limit	Not determined		
Vapor Pressure	Not determined	@68° F(20°C)	
Vapor Density	Not determined	(Air=1)	
Specific Gravity	1.03	(1=Water)	
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		
VOC Content (%)	Not determined		

10. STABILITY AND REACTIVITY

Reactivity	No further relevant information available.
Chemical Stability	Stable under normal conditions.
Possibility of Hazardous Reactions	No dangerous reactions known.
Thermal Decomposition/ Conditions to Avoid	No further relevant information available.
Incompatible Materials	No further relevant information available
Hazardous Decomposition products	No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye Contact	Causes severe eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Skin Contact	Causes skin irritation. Symptoms may include redness and itching
Inhalation	No known effects.
Ingestion	May be harmful if swallowed.

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

Acute Effects	Exposure may result in irritation to any contact tissue, including possible burns depending on the concentration, duration, and nature of the exposure
Chronic Effects	Prolonged inhalation may be harmful.

Information on physical, chemical and toxicological effects

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
MEA 141-43-5	1,515 mg/kg (Rat)	1,025 mg/kg (Rabbit)	-
N-Butylethanolamine 111-75-1	1,150 mg/kg (rat)	2,000 mg/kg (rabbit)	
3,3,5-Trimethylhexanoic acid 3302-10-1	1,160 mg/kg (rat)	2,000 mg/kg (rat)	-
Dodecanedioic Acid 693-23-2	3,000 mg/kg (rat)	3,000 mg/kg (rat)	

Carcinogenicity	None present >1ppm
Reproductive Toxicity	None present >1ppm
STOT- repeated/single exposure	No data available (for both single and repeated exposure)
Additional Information	No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
MEA 141-43-5	EC50: 30.1 mg/l Exposure time: 48 h Test Type: static test	NOEC: Calculated > 1 mg/l		NOEC (Daphnia magna (Water flea)): 0.78 mg/l Exposure time: 21 d
N-Butylethanolamine 111-75-1	EC50/72h/algae = 30 mg/l	LC50/96h/Fish Leuciscus idus (golden orfe)	EC50 / Tox Bacteria EC50 (17h) : 1000 mg/l	LC50/48h/daphnia = 180 mg/l

Persistence/Degradability	No data available.
Bioaccumulation	No data available
Mobility	No data available
Other Adverse Effects	Not determined

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes

As the US EPA, state, regional, and other regulatory agencies may have jurisdiction over the disposal of your facility's hazardous waste, it is incumbent upon you, the hazardous waste generator, to learn of and satisfy all the requirements which affect you. Dispose of the hazardous waste at a properly licensed and permitted disposal site or facility. Ensure conformity to all applicable hazardous waste disposal 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**

The component(s) of this product comply with the inventory requirement administered by the governing countries

US Regulations**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)**Hazard categories**

Skin Corrosion or Irritation

Serious eye damage or eye irritation

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

State of California Safe Drinking Water and Toxic Enforcement Act of 1986**California Proposition 65**

WARNING! This product can expose you to chemicals including Ethylene oxide (CAS # 75-21-8) which is known to the State of California to cause cancer and 1,4-Dioxane (CAS # 123-91-1) which is known to the State of California to cause cancer, birth defects and/or reproductive harm. For more information, go to www.P65Warnings.ca.gov.

16. OTHER INFORMATION**NFPA****Health Hazards****Flammability****Instability****Special Hazards**

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None

HMIS**Health Hazards****Flammability****Physical Hazards****Personal Protection**

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Determined by end user

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Revision Note:

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