



Ciba

Value beyond chemistry

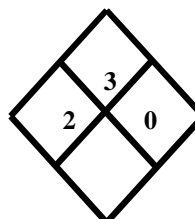
MSDS No: 17

Date Printed: 7/17/02

Effective Date: 8/15/01

1. PRODUCT IDENTIFICATION

Chemical Family: Mixture of Fluoroakyl Surfactants



NFPA RATING

Health	2
Flammability	3
Reactivity	0
Protective Equipment	J

HMS RATING

Product Name(s):
 LODYNE F-410A DRUM

Product Code:
 1497342VV

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>CAS No.</u>	<u>Common Name:</u>	<u>ACGIH/PPM</u>		<u>OSHA/PPM</u>	<u>% by Wt.</u>
		<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	
7732-18-5	Water	None	None	None	43 - 47
Confidential	Fluorochemical anionic surfactant	None	None	None	18 - 20
70969-47-0	Perfluoro telomer	None	None	None	12 - 14
107-41-5	Hexylene glycol	None	25	None	8.8
Confidential	Fluorochemical cationic surfactant	None	None	None	6 - 8
75-65-0	Tert-butyl alcohol	100	None	100	5

3. HAZARDS IDENTIFICATION

Route(s) of Entry: Dermal and inhalation.

Potential Health Effects: Eye, skin and respiratory irritant. Overexposure may cause reproductive disorder(s) (2-Methyl-2-Propanol)

Carcinogenicity (NTP): Not listed.

Carcinogenicity (IARC): Not listed.

Carcinogenicity (OSHA): Not listed.

4. FIRST AID MEASURES

Ingestion: If conscious, give plenty of water to drink. Get medical attention. If unconscious, do not give anything to drink. Get immediate medical attention.

Skin: Wash with mild soap and water. If irritation occurs, get medical attention. If clothing is contaminated, remove and wash before reuse.

Inhalation: If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

Eyes: Flush eyes with water for at least 15 minutes. Get medical attention.

5. FIRE FIGHTING MEASURES

Flash Point:	95°F (35 °C)
Flash Point Method Used:	PMCC
Flammable Limits in Air (Lower - % by volume):	Not evaluated
Flammable Limits in Air (Upper - % by volume):	Not evaluated
Auto-Ignition Temperature:	Not evaluated
TDG Flammability Class (Canada):	TDG Classification in Sect. 14

General Hazards: Flammable Liquid

Fire Fighting Equipment: Use self contained breathing apparatus

Fire Fighting Extinguishing Media: Water, dry chemical, foam

Fire and Explosion Hazards: No unusual hazards.

Hazardous Combustion Products: Burning may produce oxides of carbon, nitrogen, sulfur and fluorine. Hydrofluoric acid may also be produced.

Emergency Response Guidebook Information: Guide 26: Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind, keep out of low areas. Isolate for 1/2 mile in all directions if tank, rail car, or tank truck is involved in fire.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Absorb onto sand or other absorbent material. Shovel into closable container for disposal. Wear protective equipment specified (Section 8). Do not use water, as large volumes of foam develop and slippery conditions may result.

7. HANDLING AND STORAGE

WARNING! Flammable. Eye, skin, and respiratory irritant. Keep away from heat, sparks and open flame. Avoid contact with eyes, skin and clothing. Avoid breathing dust, vapor or mist. Keep container closed. Use with adequate ventilation. For industrial use only. Contains acrylamide, a chemical known to the state of California to cause cancer (Proposition 65).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protective Equipment: Wear appropriate equipment to prevent probability of exposure and personal contact. Deluge safety shower and eye wash should be located near work area.

Eye Protection: Wear splash-proof chemical goggles.

Skin Protection: Wear impervious gloves as a standard handling procedure.

Respiratory Protection: Use NIOSH approved respirator where there is likelihood of inhalation of organic vapors.

Engineering Controls: Local exhaust recommended, mechanical exhaust acceptable.

Emergency Response Protection: No additional specialized equipment should be required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Liquid
Odor:	Alcohol
Solubility in Water:	Complete
Vapor Pressure:	Not evaluated
Specific Gravity:	1.167 g/ml at 25°C (77 °F)
Boiling Point:	174° F (79 ° C)
Melting Point:	Not evaluated
Freezing Point:	Not evaluated
Decomposition Temperature:	Not evaluated
Evaporation Rate:	Not evaluated
Bulk Density:	Not evaluated
Vapor Density:	Not evaluated
VOC:	< 9 % For component
pH:	6 - 6.5
Coefficient of water/oil:	Not evaluated

Volatile(s): ca. 50%

10. STABILITY AND REACTIVITY

Stability: Store between 5C and 50C. Some solids will separate out at temperatures below 5C over time. If frozen or solids separate out of the product, bring it to room temperature to return product to a clear liquid. Freezing and thawing will not affect the properties or performance.

Incompatibility: None known.

Hazardous Decomposition Products: Burning may produce oxides of carbon, nitrogen, sulfur and fluorine. Hydrofluoric acid may also be produced.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Eye Irritation: (Rabbits) irritant

Skin Irritation: (Rabbits) irritant

Inhalation Toxicity: Not evaluated

Sensitization: Not evaluated

Acute Dermal Toxicity: Not evaluated

Acute Ingestion Exposure Effects: Not evaluated

Additional Information: Irritation studies shown in this section are for a major component in the mixture.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not evaluated

Biological Oxygen Demand (BOD5): Not evaluated

Chemical Oxygen Demand (COD): Not evaluated

Activated Sludge Respiration Inhibition Test: Not evaluated

Additional Information: None

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Landfill in a site approved for the disposal of chemical and hazardous waste. Do not incinerate. Follow all federal, provincial, and local regulations.

Container Disposal Information: Emptied container may contain product residue and should not be reused.

RCRA Hazard Class: Refer to Section 15: Regulatory Information for RCRA status.

14. TRANSPORT INFORMATION

DOT:

Proper Shipping Name:	Butanols
Hazard Class:	3
ID Number:	UN 1120
Packing Group:	PG III

IATA:

Proper Shipping Name:	Butanols
Hazard Class:	3
ID Number:	UN 1120
Packing Group:	PG III

IMDG:

Proper Shipping Name:	Butanols
Hazard Class:	3
ID Number:	UN 1120
Packing Group:	PG III

TDG:

Proper Shipping Name:	Butanols
Hazard Class:	3
ID Number:	UN 1120
Packing Group:	PG III

Additional Information: None

15. REGULATORY INFORMATION

US Federal Regulations:

Chemical Weapons Convention (CWC): This product does not contain any chemicals listed under the Chemical Weapons Convention Schedule of Chemicals.

Clean Air Act -Hazardous Air Pollutants (HAP): This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

Clean Air Act - Ozone Depleting Substances (ODS): This product neither contains, nor was manufactured with, a Class I or Class II ozone depleting substance (ODS), as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A+B).

Clean Water Act - Priority Pollutants (PP): This product does not contain any priority pollutants listed under the U.S. Clean Water Act Section 307 (2)(1) Priority Pollutant List (40 CFR 401.15).

Occupational Safety and Health Act (OSHA): This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

Resource Conservation and Recovery Act (RCRA): This product is not considered to be hazardous waste under RCRA (40 CFR 261).

SARA Title III: Section 302 - Extremely Hazardous Substances (EHS): This product contains the following chemicals regulated under Section 302 (40 CFR 355) as extremely hazardous substances:

Chemical Name: 2-Propenamide
Common Name: Acrylamide
CASRN: 79-06-1
Percent in Composition: 0.01 - 0.03 % by wt

SARA Title III: Section 304 - CERCLA: This product contains the following chemicals regulated under Section 304 (40 CFR 302) as hazardous substance(s) for emergency release notification ("CERCLA" List):

Chemical Name: 2-Propenamide
Common Name: Acrylamide
CASRN: 79-06-1
Percent in Composition: 0.01 - 0.03 % by wt
Component RQ: 5000

SARA Title III: Section 311/312 - Hazard Communication Standard (HCS): Immediate/Delayed/Flammable

SARA Title III: Section 313 Toxic Chemical List (TCL): This product contains a toxic chemical(s) for routine annual toxic chemical release reporting under section 313 (40 CFR 372). This information must be included in all MSDS's copied or distributed for this material.

Chemical Name: 2-Propanol, 2-methyl-
CASRN: 75-65-0
Percent in Composition: 5 % by wt

TSCA Section 5(e) - Consent Order / SNUR: This product is not subject to a Section 5(e) Consent Order or Significant New Use Rule (SNUR).

TSCA Section 8(b) - Inventory Status: All chemical(s) comprising this product are either exempt or listed on the TSCA inventory.

TSCA Section 12(b) - Export Notification: This product does not contain any chemical(s) that are subject to a Section 12(b) export notification.

International Regulations:

Canadian Inventory Status: All components are listed on the Canadian DSL or notified in accordance with CEPA regulations.

Canadian WHMIS: This product contains the following chemicals listed on the Canadian WHMIS Ingredient Disclosure List.

Chemical Name: 2,4-Pentanediol, 2-methyl-
CASRN: 107-41-5
Percent in Composition: 8 - 10 % by wt

Chemical Name: 2-Propanol, 2-methyl-
CASRN: 75-65-0
Percent in Composition: 5 % by wt

State Regulations:

California Proposition 65: The following is required composition information. This product contains the following chemical(s) which are currently listed on the California list of Known Carcinogens and Reproductive Toxins:

Chemical Name: 2-Propanamide
CASRN: 79-06-1
Percent in Composition: 0.01 - 0.03 % by wt

Massachusetts Right-to-Know: The following is required composition information:

Chemical Name: 2,4-Pentanediol, 2-methyl-
CASRN: 107-41-5
Percent in Composition: 8 - 10 % by wt

Chemical Name: 2-Propanol, 2-methyl-
CASRN: 75-65-0
Percent in Composition: 5 % by wt

New Jersey Right-to-Know: The following is required composition information:

Chemical Name: 2,4-Pentanediol, 2-methyl-
CASRN: 107-41-5

Chemical Name: 2-Propanol, 2-methyl-
CASRN: 75-65-0

Chemical Name: Water
CASRN: 7732-18-5

Chemical Name: Fluorochemical anionic surfactant
NJ Registry #: 29943300001-6626P

Chemical Name: Thiols, C8-20, .gamma.-.omega.-perfluoro, telomers with acrylamide
CASRN: 70969-47-0

Pennsylvania Right-to-Know: The following is required composition information:

Chemical Name: Water
CASRN: 7732-18-5
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Fluorochemical anionic surfactant
CASRN: Confidential
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Thiols, C8-20, .gamma.-.omega.-perfluoro, telomers with acrylamide
CASRN: 70969-47-0
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: 2,4-Pentanediol, 2-methyl-
CASRN: 107-41-5
Comment: Hazardous Substance

Chemical Name: Fluorochemical cationic surfactant
CASRN: Confidential
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: 2-Propanol, 2-methyl-
CASRN: 75-65-0
Comment: Environmental Hazardous Substance

16. OTHER INFORMATION

MSDS No:	17
Prepared By:	Reba Lemons
Approved By:	Frances E. Knight
Title:	Manager, Product Registration
Approved Date:	08/15/01
Supersedes Date:	11/02/99

Revision Summary: Changes in Section(s): 14

Disclaimer: For further information, please contact:
Product Stewardship Team:

Phone: (336) 801-2373

Fax: (336) 801-2056

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein. This material safety data sheet was prepared to comply with the OSHA Hazard Communication standard (29 CFR 1910.1200).

This supersedes any previous information.