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Value beyond chemistry

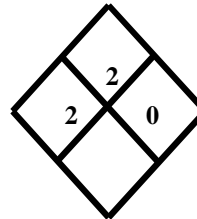
MSDS No: 4

Date Printed: 7/17/02

Effective Date: 5/14/02

1. PRODUCT IDENTIFICATION

Chemical Family: Fluorinated Alcohol



NFPA RATING

Health	2
Flammability	2
Reactivity	0
Protective Equipment	J

HMS RATING

Product Name(s):
LODYNE F-304 DRUM

Product Code:
1461437VV

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	46 - 48
Confidential	Fluorochemical anionic surfactant	None	None	None	13 - 15
70969-47-0	Perfluoro telomer	None	None	None	12 - 15
107-41-5	Hexylene glycol	None	25	None	6.6
112-34-5	Diethylene glycol monobutyl ether	None	None	None	6.1
Confidential	Fluorochemical cationic surfactant	None	None	None	5 - 6
75-65-0	Tert-butyl alcohol	100	None	100	3.8
71-23-8	n-propanol	200	250	200	1.5

3. HAZARDS IDENTIFICATION

Route(s) of Entry: Dermal and inhalation.

Potential Health Effects: May cause eye irritation. Contains diethylene glycol monobutyl ether which may cause kidney damage. Overexposure to this product may cause narcosis, nausea, and vomiting.

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 not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

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

5. FIRE FIGHTING MEASURES

Flash Point:	40°C (104 °F)
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: Combustible liquid

Fire Fighting Equipment: Use self contained breathing apparatus

Fire Fighting Extinguishing Media: Water fog, dry chemical, alcohol 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: None

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! Combustible. Eye, skin, and respiratory irritant. Keep away from heat, sparks, and open flame. Avoid contact with eyes, skin, and clothing. Avoid breathing dust, vapor, mist or gas. Keep container closed. Use with adequate ventilation. For industrial use only.

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 face shield.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Liquid
Color:	Yellow
Odor:	Alcohol
Solubility in Water:	Complete
Vapor Pressure:	Not evaluated
Specific Gravity:	1.133 g/ml at 25°C (77 °F)
Boiling Point:	Not evaluated
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:	< 18 % For component
pH:	6 - 7.5
Coefficient of water/oil:	Not evaluated

Volatile(s): Not evaluated

10. STABILITY AND REACTIVITY

Stability: Stable

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: Not evaluated.

Skin Irritation: Not evaluated.

Inhalation Toxicity: Not evaluated.

Sensitization: Not evaluated.

Acute Oral Effects: Not evaluated.

Acute Dermal Toxicity: Not evaluated.

Additional Information: None

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: Bury or incinerate in approved site or facility in accordance with local, state (provincial) and federal 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: Non-Bulk

Proper Shipping Name: Not Regulated

IATA:

Proper Shipping Name: Alcohols, n.o.s.

Technical Shipping Name (If n.o.s.): (Contains 2-Methyl-2-Propanol)

Hazard Class: 3

ID Number: UN 1987

Packing Group: PG III

IMDG:

Proper Shipping Name: Alcohols, n.o.s.

Technical Shipping Name (If n.o.s.): (Contains 2-Methyl-2-Propanol)

Hazard Class: 3

ID Number: UN 1987

Packing Group: PG III

TDG:

Proper Shipping Name:	Alcohols, n.o.s.
Technical Shipping Name (If n.o.s.):	(Contains 2-Methyl-2-Propanol)
Hazard Class:	3
ID Number:	UN 1987
Packing Group:	PG III

Department of Transportation: Not regulated under Section 173.150 (f) (2) when classed as a combustible liquid in non-bulk packaging shipped by motor freight or rail. This exception does not apply for shipments by air or vessel.

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 considered to be a hazardous chemical under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Resource Conservation and Recovery Act (RCRA): This material may be a RCRA regulated hazardous waste upon disposal due to the ignitability characteristic. (40 CFR 261.21) Ignitability D001.

SARA Title III: Section 302 - Extremely Hazardous Substances (EHS): This product does not contain any chemicals regulated under Section 302 (40 CFR 355) as extremely hazardous substances.

SARA Title III: Section 304 - CERCLA: This product does not contain any chemicals regulated under Section 304 (40 CFR 302) as hazardous chemicals for emergency release notification ("CERCLA" List).

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

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: Ethanol, 2-(2-butoxyethoxy)-
CASRN: 112-34-5
Percent in Composition: 6.1 % by wt

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

Percent in Composition: 3.8 % 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: This product contains only chemicals that are currently listed on the Canadian Domestic Substance List.

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: 6.6 % by wt

Chemical Name: Ethanol, 2-(2-butoxyethoxy)-

CASRN: 112-34-5

Percent in Composition: 6.1 % by wt

Chemical Name: 2-Propanol, 2-methyl-

CASRN: 75-65-0

Percent in Composition: 3.8 % by wt

Chemical Name: 1-Propanol

CASRN: 71-23-8

Percent in Composition: 1.5 % by wt

State Regulations:

California Proposition 65: This product does not contain any chemicals currently on the California list of Known Carcinogens and Reproductive Toxins.

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

Chemical Name: 2,4-Pentanediol, 2-methyl-

CASRN: 107-41-5

Percent in Composition: 6.6 % by wt

Chemical Name: 2-Propanol, 2-methyl-

CASRN: 75-65-0

Percent in Composition: 3.8 % by wt

Chemical Name: 1-Propanol

CASRN: 71-23-8

Percent in Composition: 1.5 % 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: 1-Propanol
Common Name: n-propanol
CASRN: 71-23-8

Chemical Name: Water
CASRN: 7732-18-5

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

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: Ethanol, 2-(2-butoxyethoxy)-
CASRN: 112-34-5
Comment: Not on Pennsylvania Hazardous Substance List

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

Chemical Name: 1-Propanol
CASRN: 71-23-8
Comment: Hazardous Substance

16. OTHER INFORMATION

MSDS No: 4
Prepared By: Product Stewardship Team
Approved By: Frances E. Knight
Title: Manager, Product Registration
Approved Date: 05/14/02
Supersedes Date: 06/25/01

Revision Summary: Changes in Section(s): 14

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

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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.