



Ciba

Material Safety Data Sheet

LODYNE S-152B

Value beyond chemistry

MSDS No: 37

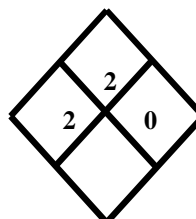
Date Printed: 07/17/02

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1. PRODUCT IDENTIFICATION

Chemical Family: Surfactant

Intended Use: Fluoroalkyl Sodium Sulfate



NFPA RATING

Health	2
Flammability	2
Reactivity	0
Protective Equipment	J

HMSI RATING

Product Name(s):

LODYNE S-152B (Export Tote 800kg)
LODYNE S-152B DRUM
LODYNE S-152B EXPORT TOTE
LODYNE S-152B TOTE

Product Code:

1185272FM
1185272VV
1185272W0
1185272VX

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>CAS No.</u>	<u>Common Name:</u>	<u>ACGIH/PPM</u>		<u>OSHA/PPM</u>	
		<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>% by Wt.</u>
Confidential	Fluorochemical anionic surfactant Dermal: Not evaluated Inhalation: Not evaluated Ingestion: Not evaluated	None	None	None	5 - 9
70969-47-0	Perfluoro telomer Dermal: Not evaluated Inhalation: Not evaluated Ingestion: Not evaluated	None	None	None	3 - 7
107-41-5	Hexylene glycol Dermal: (Rabbit) LD50 > 10,000 mg/kg Inhalation: (Rat) ALC (saturated vapor) > 18,000 ppm (8 hr) Ingestion: (Rat) LD50 = 4,470 mg/kg	None	25	None	3.5
Confidential	Fluorochemical cationic surfactant Dermal: Not evaluated	None	None	None	1 - 5

	Inhalation: Not evaluated Ingestion: Not evaluated				
75-65-0	Tert-butyl alcohol	100	None	100	2
	Dermal: Not evaluated Inhalation: Not evaluated Ingestion: (Rat) LD50 = 3,500 mg/kg				

3. HAZARDS IDENTIFICATION

Route(s) of Entry: Dermal and inhalation.

Potential Health Effects: May cause eye, skin, and respiratory irritation. Overexposure may result in anesthesia.

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: Remove to fresh air. Get medical attention.

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

5. FIRE FIGHTING MEASURES

Flash Point:	116°F (47 °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: Combustible.

Fire Fighting Equipment: Use self contained breathing apparatus

Fire Fighting Extinguishing Media: Carbon dioxide, dry chemical, foam, water.

Fire and Explosion Hazards: No unusual hazards.

Hazardous Combustion Products: Thermal decomposition may produce oxides of sulfur, carbon and fluorine. Hydrofluoric acid might be produced.

Explosive Data-Sensitivity to Mechanical Impact: Not evaluated.

Explosive Data-Static Discharge: Not evaluated.

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. Keep from freezing.

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: Self contained breathing apparatus for concentrations above TLV limits.

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
Color:	Light yellow
Odor Threshold:	Not evaluated
Solubility in Water:	Not evaluated
Vapor Pressure:	Not evaluated
Specific Gravity:	1.12 (H ₂ O = 1)

Boiling Point:	> 83°C (> 181 °F)
Melting Point:	Not evaluated
Freezing Point:	Not evaluated
Decomposition Temperature:	Not evaluated
Evaporation Rate:	Not evaluated
Bulk Density:	Not evaluated
Vapor Density:	Not evaluated
pH:	Not evaluated
Coefficient of water/oil:	Not evaluated

Volatile(s): 55%

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.

Chronic/Carcinogenicity: Not evaluated.

Teratology: Not evaluated.

Reproduction: Not evaluated.

Mutagenicity: Not evaluated.

Acute Oral Effects: Not evaluated.

Acute Dermal Toxicity: Not evaluated.

Additional Information: None

12. ECOLOGICAL INFORMATION

Biodegradability: Not evaluated

Ecotoxicity: (Fathead minnow) LC50 = 683 mg/l (96 HR)
Daphnia Toxicity: EC50 = 105 mg/l (48 HR) (Daphnia Magna)

Biological Oxygen Demand (BOD5): 53 mg O₂/g

Chemical Oxygen Demand (COD): 669 mg O₂/g

Activated Sludge Respiration Inhibition Test: EC50 > 1,000 mg/l

Additional Information: None

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Landfill in a site approved for the disposal of chemical and hazardous wastes. 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: Non-Bulk

Proper Shipping Name: Not Regulated

IATA:

Proper Shipping Name: Alcohols, n.o.s.
Technical Shipping Name (If n.o.s.): (Contains butanol)
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 butanol)
Hazard Class: 3.3
ID Number: UN 1987
Packing Group: PG III

TDG:

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

DOT: Bulk

Proper Shipping Name: Alcohols, n.o.s.
Technical Shipping Name (If n.o.s.): (Contains butanol)
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 marine vessel.

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).

FDA: Food Packaging Status

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). D001, Ignitable

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 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 / 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-

Common Name: Tert-butyl alcohol

CASRN: 75-65-0

Percent in Composition: 2 % by wt

Comment:

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-

Common Name: Hexylene glycol

CASRN: 107-41-5

Percent in Composition: 3.5 % by wt

Chemical Name: Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-

Common Name: Nonionic surfactant

CASRN: 9036-19-5

Percent in Composition: 0 - 4 % by wt

Chemical Name: 2-Propanol, 2-methyl-

Common Name: Tert-butyl alcohol

CASRN: 75-65-0

Percent in Composition: 2 % by wt

Controlled product, Class B, D2B

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-

Common Name: Hexylene glycol

CASRN: 107-41-5

Percent in Composition: 3.5 % by wt

Chemical Name: 2-Propanol, 2-methyl-

Common Name: Tert-butyl alcohol

CASRN: 75-65-0

Percent in Composition: 2 % by wt

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

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

Common Name: Hexylene glycol
CASRN: 107-41-5

Chemical Name: 2-Propanol, 2-methyl-
Common Name: Tert-butyl alcohol
CASRN: 75-65-0

Chemical Name: Water
Common Name: Water
CASRN: 7732-18-5

Chemical Name: .beta.-Alanine, N-(2-carboxyethyl)-N-dodecyl-, disodium salt
Common Name: Anionic surfactant
CASRN: 3655-00-3

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

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

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

Chemical Name: .beta.-Alanine, N-(2-carboxyethyl)-N-dodecyl-, disodium salt
Common Name: Anionic surfactant
CASRN: 3655-00-3
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
Common Name: Perfluoro telomer
CASRN: 70969-47-0
Comment: Not on Pennsylvania Hazardous Substance List

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

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

Chemical Name: Acetic acid, sodium salt
Common Name: Sodium acetate
CASRN: 127-09-3
Comment: Not on Pennsylvania Hazardous Substance List

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

16. OTHER INFORMATION

MSDS No: 37
Reason Issued: Deleted Package Size
Approved By: Frances E. Knight
Title: Manager, Product Registration
Approved Date: 04/30/02
Supersedes Date: 03/08/01

Revision Summary: Changes in Section(s): 1

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

Phone: (336) 801-2373

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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) and with the Workplace Hazardous Materials Information System (WHMIS).

This supersedes any previous information.