



Material Safety Data Sheet

LODYNE 5100

Value beyond chemistry

MSDS No: 1102

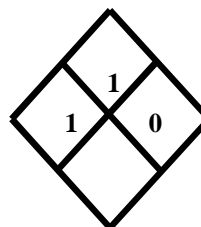
Date Printed: 07/17/02

Effective Date: 8/10/00

1. PRODUCT IDENTIFICATION

Chemical Family: Poly-perfluoroalkylated polyamino acid

Intended Use: Additive for Fire Extinguishing Compound



NFPA RATING

Health	1
Flammability	1
Reactivity	0
Protective Equipment	C

HMIS RATING

Product Name(s):
 LODYNE 5100 (EXPORT TOTE 800KG)
 LODYNE 5100 (Export Tote 800kg)
 LODYNE 5100 DRUM
 LODYNE 5100 TOTE

Product Code:
 8680033V4
 8680033FM
 8680033VV
 8680033VX

2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS No.	Common Name:	ACGIH/PPM		OSHA/PPM	
		TWA	STEL	PEL	% by Wt.
Confidential	Fluorinated polymer	None	None	None	30 - 36
7681-82-5	Sodium Iodide	None	None	None	3 - 4
107-41-5	Hexylene glycol	None	25	None	1 - 4
71-36-3	N-Butanol	None	50	100	1 - 4

3. HAZARDS IDENTIFICATION

Route(s) of Entry: Dermal and inhalation.

Potential Health Effects: Causes eye irritation.

Carcinogenicity (NTP): Not listed.

Carcinogenicity (IARC): 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:	> 200° F (> 93 ° C)
Flash Point Method Used:	Closed Cup
Flammable Limits in Air (Lower - % by volume):	Not applicable
Flammable Limits in Air (Upper - % by volume):	Not applicable
Auto-Ignition Temperature:	Not evaluated
TDG Flammability Class (Canada):	TDG Classification in Sect. 14

General Hazards: No unusual hazards.

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: Burning may produce oxides of carbon and nitrogen. Hydrofluoric acid may also be produced.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Soak up with inert absorbent material. Shovel into closable container for disposal. Wear protective equipment specified in Section 8.

7. HANDLING AND STORAGE

CAUTION! May cause eye irritation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep container closed. 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 side-shield safety glasses.

Skin Protection: Rubber gloves should be worn.

Respiratory Protection: Use NIOSH approved respirator where there is likelihood of inhalation of the product mist.

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:	Amber
Odor:	Slight
Odor Threshold:	Not applicable
Solubility in Water:	Not evaluated
Vapor Pressure:	Not applicable
Specific Gravity:	Not evaluated
Boiling Point:	Not evaluated
Melting Point:	Not applicable
Freezing Point:	Not evaluated
Decomposition Temperature:	Not evaluated
Evaporation Rate:	Not applicable
Bulk Density:	Not applicable
Vapor Density:	Not evaluated
VOC:	< 8 % For component
pH:	8 - 9 As Is
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: (Rabbits) mild irritant

Skin Irritation: (Rabbits) not an irritant

Inhalation Toxicity: Product does not generate an aerosol and could not be tested for acute inhalation toxicity.

Sensitization: Skin Sensitization (Guinea Pig) - Not a sensitizer

Mutagenicity: Ames Test - negative
Chromosome Aberration Test (in Vitro): Negative

Acute Oral Effects: (Rats) LD50 > 5,000 mg/kg

Additional Information: None

12. ECOLOGICAL INFORMATION

Biodegradability: Not evaluated

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: Incinerate in a furnace where permitted under appropriate federal, provincial and local regulation.

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:	Not Regulated
IATA:	
Proper Shipping Name:	Not Regulated
IMDG:	
Proper Shipping Name:	Not Regulated
TDG:	
Proper Shipping Name:	Not Regulated

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 not considered to be a hazardous chemical under the 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 does not contain any chemicals regulated under Section 302 (40 CFR 355) as extremely hazardous substances.

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: 1-Butanol

Common Name: N-Butanol

CASRN: 71-36-3

Percent in Composition: 1 - 4 % by wt

Component RQ: 5000

SARA Title III: Section 311/312 - Hazard Communication Standard (HCS): This product is not regulated under Section 311-312 (40 CFR 370).

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: 1-Butanol

Common Name: N-Butanol

CASRN: 71-36-3

Percent in Composition: 1 - 4 % 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: This product contains one or more chemicals currently not on the Canadian Domestic Substance List.

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

Chemical Name: Sodium iodide (NaI)
Common Name: Sodium Iodide
CASRN: 7681-82-5
Percent in Composition: 3 - 4 % by wt

Chemical Name: 1-Butanol
Common Name: N-Butanol
CASRN: 71-36-3
Percent in Composition: 1 - 4 % by wt

Chemical Name: 2,4-Pentanediol, 2-methyl-
Common Name: Hexylene glycol
CASRN: 107-41-5
Percent in Composition: 1 - 4 % 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-
Common Name: Hexylene glycol
CASRN: 107-41-5
Percent in Composition: 1 - 4 % by wt

Chemical Name: 1-Butanol
Common Name: N-Butanol
CASRN: 71-36-3
Percent in Composition: 1 - 4 % by wt

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

Chemical Name: 1-Butanol
Common Name: N-Butanol
CASRN: 71-36-3

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

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

Chemical Name: Fluorinated polymer
NJ Registry #: 29943300001-9306P

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

Chemical Name: Sodium chloride (NaCl)
Common Name: Sodium chloride
CASRN: 7647-14-5

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

Chemical Name: Fluorinated polymer
CASRN: Confidential
Comment: Not on Pennsylvania Hazardous Substance List

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

Chemical Name: Sodium chloride (NaCl)
Common Name: Sodium chloride
CASRN: 7647-14-5
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Sodium iodide (NaI)
Common Name: Sodium Iodide
CASRN: 7681-82-5
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: 1-Butanol
Common Name: N-Butanol
CASRN: 71-36-3
Comment: Environmental Hazardous Substance

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

16. OTHER INFORMATION

MSDS No:	1102
Reason Issued:	Added Package Size
Prepared By:	Reba Lemons
Approved By:	Frances E. Knight
Title:	Manager, Product Registration

Approved Date: 08/10/00
Supersedes Date: 07/31/00

Revision Summary: Changes in Section(s): 1

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.