



SAFETY DATA SHEET

1. Product and Company Identification

Material name Deck Cleaner
Revision date 5/1/2014dco
Version # 01
Product code 7-1094, 7-1095
Product use Cleaner.
Manufacturer/Supplier DONOVAN MARINE INC.
6316 Humphries Street, New Orleans, LA 70123
1-800-347-4464
Emergency 24-Hour Emergency: CHEMTREC: (703) 527-3887 or (800) 424-9300

2. Hazards Identification

Physical state Liquid.
Appearance Green liquid.
Emergency overview Low hazard under normal conditions.
OSHA regulatory status This product is hazardous according to OSHA 29 CFR 1910.1200.
Potential health effects
Routes of exposure Not applicable.
Eyes Direct contact with eyes may cause temporary irritation.
Skin Prolonged or repeated contact may dry skin and cause irritation.
Inhalation In high concentrations, vapors may be irritating to the respiratory system.
Ingestion No harmful effects expected in amounts likely to be ingested by accident.
Signs and symptoms Direct contact with eyes may cause temporary irritation. Prolonged or repeated contact may dry skin and cause irritation.
Potential environmental effects The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Alcohols, C9-11, ethoxylated	68439-46-3	<7
Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	<5
2-Propanol	67-63-0	<2
Dipropylene glycol methyl ether	34590-94-8	<2

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

First aid procedures

Eye contact Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention promptly if symptoms occur after washing.
Skin contact Wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.
Inhalation If symptomatic, move to fresh air. Get medical attention if symptoms persist.
Ingestion First aid is normally not required. However, if greater than 1/2 liter (pint) ingested, seek medical attention.

5. Fire Fighting Measures

Flammable properties No unusual fire or explosion hazards noted.

Extinguishing media

Suitable extinguishing media

Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Fire fighting equipment/instructions

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Hazardous combustion products

Carbon oxides. Nitrogen oxides. Sodium oxides.

6. Accidental Release Measures

Personal precautions

Wear appropriate personal protective equipment (See Section 8).

Methods for cleaning up

Absorb spill with vermiculite or other inert material, then place in a sealed container for chemical waste.

Large Spills: Flush area with water. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.

7. Handling and Storage

Handling

Observe good industrial hygiene practices.

Storage

Keep container closed.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
2-Propanol (67-63-0)	STEL	400 ppm
	TWA	200 ppm
Dipropylene glycol methyl ether (34590-94-8)	STEL	150 ppm
	TWA	100 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
2-Propanol (67-63-0)	PEL	980 mg/m ³
		400 ppm
Dipropylene glycol methyl ether (34590-94-8)	PEL	600 mg/m ³
		100 ppm

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value
2-Propanol (67-63-0)	STEL	984 mg/m ³
		400 ppm
	TWA	200 ppm
Dipropylene glycol methyl ether (34590-94-8)	STEL	492 mg/m ³
		150 ppm
	TWA	909 mg/m ³
		606 mg/m ³
		100 ppm

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value
2-Propanol (67-63-0)	STEL	400 ppm
	TWA	200 ppm
Dipropylene glycol methyl ether (34590-94-8)	STEL	150 ppm
	TWA	100 ppm

Canada. Ontario OELs. (Ministry of Labor - Control of Exposure to Biological or Chemical Agents)

Components	Type	Value
2-Propanol (67-63-0)	STEL	400 ppm
	TWA	200 ppm
Dipropylene glycol methyl ether (34590-94-8)	STEL	910 mg/m3
	TWA	150 ppm
		100 ppm
		605 mg/m3

Canada. Quebec OELS. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value
2-Propanol (67-63-0)	STEL	1230 mg/m3
	TWA	500 ppm
		400 ppm
Dipropylene glycol methyl ether (34590-94-8)	STEL	983 mg/m3
	TWA	150 ppm
		909 mg/m3
		606 mg/m3
		100 ppm

Mexico. Occupational Exposure Limit Values

Components	Type	Value
2-Propanol (67-63-0)	STEL	1225 mg/m3
	TWA	500 ppm
		400 ppm
Dipropylene glycol methyl ether (34590-94-8)	STEL	980 mg/m3
	TWA	150 ppm
		900 mg/m3
		600 mg/m3
		100 ppm

Engineering controls	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	
Eye / face protection	Wear safety glasses with side shields (or goggles).
Skin protection	Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties

Appearance	Green liquid.
Color	Green.
Odor	Not available.
Odor threshold	Not available.
Physical state	Liquid.
Form	Liquid.
pH	11.8
Melting point	Not available.
Freezing point	Not available.
Boiling point	Not available.

Flash point	Not available.
Evaporation rate	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity	Not available.
Solubility (water)	Complete.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Acids.
Hazardous decomposition products	No hazardous decomposition products are known.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Components	Test Results
Dipropylene glycol methyl ether (34590-94-8)	Acute Dermal LD50 Rabbit: 9.5 g/kg
Ethylenediaminetetraacetic acid, tetrasodium salt (64-02-8)	Acute Oral LD50 Rat: 5.35 g/kg Acute Oral LD50 Rat: > 2000 mg/kg
2-Propanol (67-63-0)	Acute Dermal LD50 Rabbit: 12800 mg/kg Acute Oral LD50 Rat: 4.7 g/kg
Acute effects	Direct contact with eyes may cause temporary irritation. Prolonged or repeated contact may dry skin and cause irritation.
Local effects	
US ACGIH Threshold Limit Values: Skin designation	
Dipropylene glycol methyl ether (CAS 34590-94-8)	Can be absorbed through the skin.
Sensitization	This material has a low potential to cause allergic skin reactions; however, cases of human skin sensitization have been reported.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
ACGIH Carcinogens	
2-Propanol (CAS 67-63-0)	A4 Not classifiable as a human carcinogen.

12. Ecological Information

Ecotoxicological data

Product	Test Results
Deck Cleaner	EC50 Daphnia: 110.0667 mg/l 48 hours estimated
Components	
Ethylenediaminetetraacetic acid, tetrasodium salt (64-02-8)	LC50 Bluegill (Lepomis macrochirus): 472 - 500 mg/l 96 hours
2-Propanol (67-63-0)	LC50 Bluegill (Lepomis macrochirus): > 1400 mg/l 96 hours
Alcohols, C9-11, ethoxylated (68439-46-3)	EC50 Water flea (Daphnia magna): 2.9 - 8.5 mg/l 48 hours

Components**Test Results**

LC50 Fathead minnow (*Pimephales promelas*): 6 - 12 mg/l 96 hours

Ecotoxicity	The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.
Persistence and degradability	No data available.
Bioaccumulation / Accumulation	No data available.
Partition coefficient (n-octanol/water)	Not available.
Mobility in environmental media	No data available.

13. Disposal Considerations

Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations. When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information**DOT**

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

TDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations This product is hazardous according to OSHA 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification(40 CFR 707, Subpt. D)

DIPROPYLENE GLYCOL METHYL ETHER (CAS 34590-94-8) 1.0 % One-Time Export Notification only.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

2-Propanol (CAS 67-63-0) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

2-Propanol (CAS 67-63-0) Listed.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

2-Propanol: 100

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance (40 CFR 355, Appendix A) No

Section 311/312 (40 CFR 370) No

Drug Enforcement Administration (DEA) (21 CFR 1308.11-15) Not controlled

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS status Non-controlled

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Hazardous Substances (Director's): Listed substance

2-Propanol (CAS 67-63-0) Listed.
 Dipropylene glycol methyl ether (CAS 34590-94-8) Listed.

US - Massachusetts RTK - Substance: Listed substance

2-Propanol (CAS 67-63-0) Listed.
 Dipropylene glycol methyl ether (CAS 34590-94-8) Listed.

US - New Jersey Community RTK (EHS Survey): Reportable threshold

2-Propanol (CAS 67-63-0) 500 LBS

US - New Jersey RTK - Substances: Listed substance

2-Propanol (CAS 67-63-0) Listed.
 Dipropylene glycol methyl ether (CAS 34590-94-8) Listed.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

2-Propanol (CAS 67-63-0) Listed.
 Dipropylene glycol methyl ether (CAS 34590-94-8) Listed.

16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings Health: 1
 Flammability: 1
 Physical hazard: 0

NFPA ratings Health: 1
 Flammability: 1
 Instability: 0

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