



SAFETY DATA SHEET

1. Product and Company Identification

Material name Bilge Cleaner
Version # 01
Revision date 03-01-2014
Product code 7-1098, 7-1099
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 Blue liquid.
Emergency overview WARNING

Causes skin and eye irritation. Mist or vapor irritating to eyes and respiratory tract.

OSHA regulatory status This product is hazardous according to OSHA 29 CFR 1910.1200.

Potential health effects

Routes of exposure Inhalation. Eye contact. Skin contact.

Eyes Irritating to eyes.

Skin Irritating to skin.

Inhalation Irritating to respiratory system.

Ingestion No harmful effects expected in amounts likely to be ingested by accident.

Potential environmental effects Not expected to be harmful to aquatic organisms.

3. Composition / Information on Ingredients

| Components | CAS # | Percent |
|---------------------------------|------------|---------|
| 2-Propanol | 67-63-0 | <5 |
| Alcohols, C9-11, ethoxylated | 68439-46-3 | <5 |
| Dipropylene glycol methyl ether | 34590-94-8 | 1 |
| Sodium metasilicate | 6834-92-0 | <2 |

Composition comments The full text for all R-phrases is displayed in Section 16 of the MSDS. 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 Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention. In case of irritation from airborne exposure, move to fresh air. Get medical attention if symptoms persist.

Skin contact Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Inhalation If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Ingestion Seek medical advice.

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 (CO ₂). |
| Fire fighting equipment/instructions | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Hazardous combustion products | Carbon oxides. Silicon oxides. Sodium oxides. |

6. Accidental Release Measures

| | |
|---------------------------|---|
| Personal precautions | Ensure adequate ventilation. Wear suitable protective clothing. See Section 8 of the MSDS for Personal Protective Equipment. |
| Environmental precautions | Collect and dispose of spillage as indicated in Section 13 of the MSDS. |
| Methods for containment | Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas. |
| Methods for cleaning up | Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Never return spills to original containers for re-use. Following product recovery, flush area with water. Clean surface thoroughly to remove residual contamination. |
| Other information | Clean up in accordance with all applicable regulations. |

7. Handling and Storage

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| Handling | Avoid breathing mists or vapors. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling. Observe good industrial hygiene practices. |
| Storage | Keep container tightly closed and in a well-ventilated place. Store in closed original container at room temperature. Store away from incompatible materials. |

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 |
| | 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 492 mg/m ³ |
| | STEL | 150 ppm |
| Dipropylene glycol methyl ether (34590-94-8) | | 909 mg/m ³ |

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

| Components | Type | Value |
|------------|------|----------------------|
| | TWA | 606 mg/m3 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 500 ppm |
| | TWA | 400 ppm |
| Dipropylene glycol methyl ether (34590-94-8) | STEL | 983 mg/m3 150 ppm |
| | TWA | 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 500 ppm |
| | TWA | 400 ppm |
| Dipropylene glycol methyl ether (34590-94-8) | STEL | 980 mg/m3 150 ppm |
| | TWA | 900 mg/m3 600 mg/m3 100 ppm |

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|--------------------------------|---|
| Engineering controls | Ensure adequate ventilation, especially in confined areas. |
| Personal protective equipment | |
| Eye / face protection | Wear safety glasses with side shields (or goggles). Wear a full-face respirator, if needed. |
| 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. 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

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|--|--------------------|
| Appearance | Blue liquid. |
| Color | Blue. |
| Odor | Pleasant. |
| Odor threshold | Not available. |
| Physical state | Liquid. |
| Form | Liquid. |
| pH | 9.5 |
| Melting point | Not available. |
| Freezing point | Not available. |
| Boiling point | 212 °F (100 °C) |
| 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 | 1.003 (20°C) |
| Specific gravity | Not available. |
| Solubility (water) | Complete. |
| Partition coefficient (n-octanol/water) | No data available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |

10. Chemical Stability & Reactivity Information

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|------------------------------------|--|
| Chemical stability | Material is stable under normal conditions. |
| Conditions to avoid | Contact with incompatible materials. |
| Incompatible materials | Strong oxidizing agents. Bases. |
| Hazardous decomposition products | No hazardous decomposition products are known. |
| Possibility of hazardous reactions | Will 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 |
| 2-Propanol (67-63-0) | Acute Oral LD50 Rat: 5.35 g/kg Acute Dermal LD50 Rabbit: 12800 mg/kg Acute Oral LD50 Rat: 4.7 g/kg |
| Acute effects | Causes skin and eye irritation. Mist or vapor irritating to eyes and respiratory tract. |
| 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 |
|---|---|
| Starbrite Bilge Cleaner | EC50 Daphnia: 128 mg/l 48 hours estimated |
| Components | Test Results |
| 2-Propanol (67-63-0) | LC50 Bluegill (<i>Lepomis macrochirus</i>): > 1400 mg/l 96 hours |
| Sodium metasilicate (6834-92-0) | EC50 Water flea (<i>Ceriodaphnia dubia</i>): 0.28 - 0.57 mg/l 48 hours LC50 Western mosquitofish (<i>Gambusia affinis</i>): 1800 mg/l 96 hours |
| Alcohols, C9-11, ethoxylated (68439-46-3) | EC50 Water flea (<i>Daphnia magna</i>): 2.9 - 8.5 mg/l 48 hours LC50 Fathead minnow (<i>Pimephales promelas</i>): 6 - 12 mg/l 96 hours |
| Ecotoxicity | Not expected to be harmful to aquatic organisms. |
| Persistence and degradability | The product is expected to be biodegradable. |
| Bioaccumulation / Accumulation | The product is not expected to bioaccumulate. |
| Partition coefficient (n-octanol/water) | No data available. |
| Mobility in environmental media | No data available. |

13. Disposal Considerations

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|------------------------|--|
| 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

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|------|-----------------------------------|
| 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

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|---|--|
| US federal regulations | This product is hazardous according to OSHA 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List. |
| US TSCA Section 12(b) Export Notification: Export Notification requirement/De minimis concentration | |
| 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) | |
| 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 | No |
| Section 311 hazardous chemical | 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 | Controlled |
| WHMIS classification | D2B - Other Toxic Effects-TOXIC |
| WHMIS labeling | |



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
 - 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

HMIS® ratings

Health: 2
Flammability: 1
Physical hazard: 0

NFPA ratings

Health: 2
Flammability: 1
Instability: 0

Disclaimer

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Donovan Marine Inc. assumes no responsibility for injury to the vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, Donovan Marine Inc. assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Issue date

03-01-2014