

MATERIAL SAFETY DATA SHEET

<< N/E = Not established N/AP = Not Applicable N/AV = Not Available C.O.C = Cleveland Open Cup >>

SECTION I: MATERIAL IDENTIFICATION AND USE

Material Name / Identifier: **RBM™ ShipWash**
Material Intended Use: Multi-Purpose Marine Cleaning Concentrate
Chemical Family: Proprietary complex mixture/ preparation
CAS number: N/Av
Supplier's Name: RBM HoldSolutions
Address: #101 – 2762 190th Street
City & Province: Surrey, BC, Canada V3Z 3W6
Emergency Telephone: +1 (604) 531-8333
Emergency Email: rbm@holdsolutions.com

SECTION II: HAZARDS IDENTIFICATION**2.1 Classification of the mixture**

Eye irritation (Category 2B)

2.2 Label elements**2.2.1 Label elements**

Hazard pictogram(s): No Symbol
Signal word(s): Warning
Hazard statement(s): Causes eye irritation

Precautionary Statement(s)

Prevention: Wash hands thoroughly after handling
Response: IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists, get medical attention

2.3 Other hazards

No particular hazard known

SECTION III: COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient(s) | % W/W | CAS No. |
|--------------------|-------|------------|
| Alcohol ethoxylate | 1-5 % | 68991-48-0 |

*The specific chemical identity of this composition is being withheld as a trade secret.***SECTION IV: FIRST AID MEASURES****4.1 Description of first aid measures**

Eyes: Check for and remove any contact lenses. Do not rub eyes. Immediately flush with warm running water holding the eyelids apart, for 15 minutes. Call a physician if irritation develops.
Skin: Remove contaminated clothing. Wash affected skin with soap and water.
Ingestion: No toxic effect is expected. Rinse mouth and drink 1 glass of water. Do not induce vomiting. Consult a physician.
Inhalation: Immediately remove the affected victim to fresh air. If symptoms persist, obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed: May irritate eyes**4.3 Indication of the immediate medical attention and special treatment needed:** Treat symptomatically.

MATERIAL SAFETY DATA SHEET**SECTION V: FIRE AND EXPLOSION HAZARD DATA****5.1 Extinguishing media**

Suitable Extinguishing Media: Product is not combustible
Unsuitable Extinguishing Media: Not applicable.

5.2 Special hazards arising from the substance or mixture: Not applicable**5.3 Advice for fire-fighters:** Product is not combustible**5.4 Special protective equipment for fire-fighters:** Not applicable**5.5 Additional Information:** Not Available**SECTION VI: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

For non- emergency personnel: Small spill: Use appropriate tools to wipe up the product. Large spill: Stop the leak if possible. Block release of the chemical from sewer or storm drains. Observe all personal protection equipment recommendations.
For emergency responders: Use personnel protection recommended in Section 8

6.2 Environmental precautions: Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground**6.3 Methods and material for containment and cleaning up**

Do not release large quantities into surface water or into drains. Wear suitable protective clothing, gloves & eye/face protection

6.4 Reference to other sections See Also Section 7, 8, 13.**6.5 Additional Information:** For waste Disposal: Follow local regulations for discharge of waste effluent.**SECTION VII: SAFE HANDLING AND STORAGE****7.1 Precautions for safe handling** Avoid ingestion. Use only in well-ventilated areas. Keep away from strong oxidizing agents, acids. Use in well-ventilated areas. Do not eat and drink in work area. Wash hands after using.**7.2 Conditions for safe storage, including any incompatibilities** Store in a well-ventilated place. Do not store and transport with oxidizers etc. Keep container closed when not in use.
Storage Temperature < 50 °C. Storage Life Not available.

Incompatible materials: Oxidizing agents, Strong Acids

7.3 Specific end use(s): Not applicable**SECTION VIII: EXPOSURE CONTROL / PERSONAL PROTECTION****8.1 Control parameters****8.1.1 Occupational Exposure Limits:****US. Workplace Environmental Exposure Level (WEEL) Guides****Components Type Value Form**

Alcohol ethylate (CAS 68991-48-0) - TWL - Not Available

8.1.2 Biological limit value: Biological limit values are not available for this product.**8.1.3 PNECs and DNELs** No PNECs and/or DNELs are available for this product.**8.2 Exposure controls****8.2.1 Appropriate engineering controls:** Guarantee sufficient ventilation during and after use, in order to prevent vapor accumulation.**8.2.2 Personal protection equipment**

| | |
|----------------------------|--|
| Protective Hand wear: | Impervious gloves |
| Protective Eyewear: | Safety glasses with side shields or goggles |
| Other protective clothing: | Not required. |
| Respiratory Apparatus: | Not normally required if good ventilation is maintained. |
| Local/mechanical exhaust: | Not normally required if good ventilation is maintained. |

8.2.3 Environmental Exposure Controls: Adequate ventilation must be used. Guarantee sufficient ventilation during and after use, in order to prevent vapor accumulation.

MATERIAL SAFETY DATA SHEET**SECTION IX: PHYSICAL DATA**

| | | | |
|-----------------------------------|-------------|---------------------------|-----------|
| Physical State: | Liquid | Odour: | Apple |
| Appearance: | Light green | Odor Threshold: | N/E |
| Specific Gravity: | 1.007 | Vapor Pressure: | N/Ap |
| Vapor Density :(Air=1) | N/Av | Evaporation rate: | N/E |
| Boiling Point: (°C.) | N/Av | Freezing Point: (°C.) | -0 |
| Solubility in Water: | N/Av | pH factor: | 11.5-12.2 |
| Flash Point/Method op. cup: (°C.) | N/Av | % Volatile: | N/E |
| Explosive limits | No | Oxidizer | No |
| Water solubility | Soluble | Viscosity | N/E |
| Partition coefficient | N/Av | Auto ignition temperature | N/E |
| Decomposition Temperature | N/Av | Explosive properties | N/E |

SECTION X: STABILITY AND REACTIVITY DATA

10.1 Reactivity Strong oxidizing agents, strong reducing acids

10.2 Chemical stability Stable under normal conditions.

10.3 Possibility of hazardous reactions: Can react if in contact with – strong oxidizing agents.

10.4 Conditions to avoid: Avoid contact with strong oxidizing agents, strong reducing acids.

10.5 Incompatible materials: Strong oxidizing agents, strong reducing acids

10.6 Hazardous Decomposition Product(s): Carbon monoxide, Carbon dioxide, hydrogen chloride, oxides of nitrogen, methyl chloride when heated

10.7 Hazardous polymerization: Will not occur

SECTION XI: TOXICOLOGICAL INFORMATION**Information on toxicological effects:****11.1.1 Information on likely routes of exposure. Signs and Symptoms of short term exposure:**

Inhalation: May slightly irritate respiratory system, if used in poorly ventilated area

Skin & Eyes: May cause eye irritation.

Ingestion: May produce gastrointestinal disturbances including irritation, nausea, and diarrhea if ingested in large quantities.

11.1.2 Mixtures

Acute Oral Toxicity Estimate LD 50 (Oral, rat) > 25,000 mg / kg

Skin irritation: Not to be expected.

Skin corrosivity: Not to be expected

Carcinogenicity Data: The ingredients of this product is not classed as carcinogenic by ACGIH, IARC, OSHA

Reproductive Data: No adverse reproductive effects are anticipated

Mutagenicity Data: No adverse reproductive effects are anticipated

Skin sensitization: Is not a skin sensitizer

11.1.3 Component Information:

| Chemical name | Oral LD 50 | Dermal LD 50 | Inhalation LC50 |
|-----------------------------------|--------------------|--------------|-----------------|
| Alcohol ethylate (CAS 68991-48-0) | >2,000 mg/kg (Rat) | N/AV | N/AV |

SECTION XII: ECOLOGICAL INFORMATION

12.1 Toxicity 96 hour LC₅₀ (Tilapia Nilotica) = 160 mg/l

12.2 Persistence and degradability: Readily biodegradable

12.3 Bioaccumulative potential Not Available

12.4 Mobility in soil Not Available

12.5 Results of PBT and vPvB assessment No data.

12.6 Other adverse effects None

MATERIAL SAFETY DATA SHEET**SECTION XIII: DISPOSAL CONSIDERATIONS**

- 13.1 Waste treatment methods:** Consult your local regional authority for disposal options
13.2 Additional Information: Avoid release to the environment.

SECTION XIV: TRANSPORTATION INFORMATION

- 14.1 ADR Classification** Not Regulated
14.2 DOT (Department of Transportation) Not Regulated
14.3 TDG (Canada Transport of Dangerous Goods) Not Regulated
14.4 ICAO/IATA Not Regulated
14.5 IMO/IMDG Not Regulated

SECTION XV: REGULATORY INFORMATION**15.1 Chemical Safety Assessment:**

OSHA: This material is classified as hazardous under OSHA regulations (29 CFR 1910.1200. Hazardous classification:
Eye irritation (Category 2B)

USA TSCA (Toxic Substance Control Act) All chemicals listed

US CERCLA Reportable quantity (RQ): No chemical in this material with known CAS number are subject to the reporting requirements of CERCLA

SARA TITLE III: Sec.302. 40 CFR 355: No extremely hazardous substances are present in this material.

SARA TITLE III: Sec.313. 40 CFR 372 This substance contains no materials subject to the reporting requirements of Section 313

SARA TITLE III: Sec.311 and 312. 40 CFR 370 MSDS Requirements. Hazardous Classes: Acute Health Hazard (Eye Irritation).

US State Right to Know Law

Proposition 65 California Safe Drinking Water and Toxic Enforcement Act of 1986: This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels under which would be subject to the proposition.

International information

Canadian Environmental Protection Act (CEPA) All ingredients listed appear on the Domestic Substances List(DSL)

15.2 Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union (EINECS/ELINCS) All chemicals listed
Canada WHMIS Classification Class D 2B (Eye irritation)

SECTION XVI: ADDITIONAL INFORMATION**Further information:**

Information for this Material Safety Data Sheet was prepared from sources considered reliable. While every effort has been made to ensure full disclosure of product hazards, data is not available in some cases and is so stated where applicable. The manufacturer assumes no liability or responsibility, and no warranty is expressed or implied, in cases where products are mishandled, misused or instructions are not strictly observed. Each recipient of this MSDS is encouraged to study it carefully to fully understand this product

SECTION X: PREPARATION INFORMATION

Prepared by:
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Telephone:
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Date:
1 Feb 2018

Replaces:
6 June 2016