# SAFETY DATA SHEET

### Water Based Engine Degreaser (VOC Compliant)

SDS No: 4011-1

Version: 1.1 (REG\_29 CFR 1910.1200 /REG\_GHS Rev.5<sup>th</sup> e.2013) Date of last Revision: 08/19/2014

### 1.Identification of the substance or mixture and of the supplier

- 1.1 Product identifier used on the label: Water Based Engine Degreaser
- 1.2 Other means of identification: Not Applicable
- **1.3** Recommended use of the chemical and restrictions on use: An automotive engine degreaser. This material should not be used for any other purpose than that recommended without expert advice.
- **1.4** Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party: J.B.Chemical Co., Inc.

14803 S. Spring Street Gardena, CA 90248, USA 310-532-3021 800-522-2468

**1.5 Emergency phone numbers:** 

J.B.Chemical Co., Inc.: (310) 532-3021, (800) 522-2468 Monday - Friday, 7:00am - 3:00pm PST Chemtrec: (800) 424-9300 - Outside the continental U.S.: (703) 527-3887 24 Hours

### 2.Hazard(s) identification

2.1 Classification of the chemical in accordance with 29 CFR 1910.1200(d) and GHS Rev.5<sup>th</sup> e.2013: This product is classified as hazardous.

Acute Toxicity(Oral) Category 5 Eye Damage Category 1 Skin Corrosion Category 1 Aquatic Chronic Category 3

2.2 Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with 29 CFR 1910.1200(f) and GHS Rev.5<sup>th</sup> e.2013:

Signal word: Danger

Hazard statement(s):

- Physical Hazards: Not Applicable
- Health Hazards: H314: Causes severe skin burns and eye damage.
  - H303: May be harmful if swallowed.
- Environmental Hazard: H412: Harmful to aquatic life with long lasting effects.

Symbol(s):

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#### Precautionary statement(s):

#### Prevention:

P102: Keep out of reach of children.

P264: Wash hands thoroughly after handling.

P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P280: Wear protective gloves/eye protection.

P273: Avoid release to the environment.

#### Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310: Immediately call a POISON CENTER or doctor/physician.

P363: Wash contaminated clothing before reuse.

Storage: P405: Store locked up.

**Disposal:** P501: Dispose of contents/container in accordance with CERCLA/CWA (Section 311)/SARA Title III Regulations.

- 2.3 Describe any hazards not otherwise classified that have been identified during the classification process It may cause respiratory tract irritation.
- 2.4 Where an ingredient with unknown acute toxicity is used in a mixture at a concentration ≥ 1% and the mixture is not classified based on testing of the mixture as a whole, a statement that X% of the mixture consists of ingredient(s) of unknown acute toxicity is required: Not Applicable

### **3.Composition/ information on ingredients**

| Chemical name           | CAS No.    | EC No.    | Concentration<br>(Wt%) | Classification<br>29 CFR 1910.1200(d)/GHS |
|-------------------------|------------|-----------|------------------------|---|
| Ethylene glycol         | 111-76-2   | 203-905-0 | ≤ 7.00                 | Flam. Liq.4 H227                          |
| monobutyl ether         |            |           |                        | Acute Tox.4 H302                          |
|                         |            |           |                        | Acute Tox.4 H312                          |
|                         |            |           |                        | Skin Irrit.2 H315                         |
|                         |            |           |                        | Eye Irrit.2 H319                          |
|                         |            |           |                        | Acute Tox.4 H332                          |
|                         |            |           |                        | Asp Tox.1 H304                            |
| Sodium                  | 25155-30-0 | 246-680-4 | ≤ 6.00                 | Acute Tox.4 H302                          |
| Dodecylbenzenesulfonate |            |           |                        | Acute Tox.4 H312                          |
|                         |            |           |                        | Eye Irrit.2 H319                          |
|                         |            |           |                        | Skin Irrit.2 H315                         |
|                         |            |           |                        | STOT SE3 H335                             |
| Sodium Hydroxide        | 1310-73-2  | 215-185-5 | ≤ 2.00                 | Acute Tox.3 H301                          |
|                         |            |           |                        | Acute Tox.4 H312                          |
|                         |            |           |                        | Eye Dam.1 H318                            |
|                         |            |           |                        | Skin Corr.1A H314                         |
|                         |            |           |                        | Aquatic Acute 3 H402                      |

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| Ethoxylated Alcohols<br>Mixture | 66455-15-0<br>68551-12-2<br>68002-97-1 | Not listed/<br>500-221-7 | ≤ 4.00 | Skin Irrit.2 H315<br>Eye Irrit.2 H319<br>STOT SE3 H335<br>Asp Tox.1 H304<br>Aquatic Acute 2 H401 |
|---------------------------------|--|--------------------------|--------|--|
|---------------------------------|--|--------------------------|--------|--|

### 4.First-aid measures

- 4.1 Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion.
  - Inhalation: If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, get medical attention.
  - Skin contact: Clean affected areas with mild soap and water. Remove contaminated clothing, including shoes, and launder before reuse or discard. If any irritation persists, seek medical attention.
  - Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If any irritation persists, get medical attention.
  - Ingestion: Do not induce vomiting or give anything by mouth. If victim is drowsy or unconscious, place on the left side with head down. If possible, do not leave victim unattended.
- **4.2** Most important symptoms/effects, acute and delayed: Serious eye and skin burns/irritation.
- **4.3** Indication of immediate medical attention and special treatment needed, if necessary: Persistent eye or skin irritation.

### 5.Fire-fighting measures

- **5.1** Suitable (and unsuitable) extinguishing media: Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not discharge extinguishing waters into the aquatic environment.
- 5.2 Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products): Not Applicable
- **5.3** Special protective equipment and precautions for fire-fighters: Wear full protective clothing and self-contained breathing apparatus.

#### 6.Accidental release measures

#### 6.1 Personal precautions, protective equipment, and emergency procedures:

Avoid contact with spilled or released material. Immediately remove all contaminated clothing. Wear protective equipment to prevent skin and eye contact and breathing in vapors. Remove all possible sources of ignition in the surrounding area. Shut off leaks, if possible without personal risks. Use appropriate containment (of product and fire-fighting water) to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapor or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity

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by bonding and grounding (earthing) all equipment.

#### 6.2 Methods and materials for containment and cleaning up:

For small liquid spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely. For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. U.S. regulations may require reporting releases of this material to the environment which exceed the reportable quantity (refer to Chapter 15) to the National Response Centre at (800) 424-8802.

### 7.Handeling and storage

#### 7.1 Precautions for safe handling:

Avoid breathing mists or vapors. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling. Do not wear contaminated clothing or shoes. Handle an open container with care in a well-ventilated area. Ventilate work place in such a way that the Occupational Exposure Limit (OEL) is not exceeded. Do not empty into drains.

#### 7.2 Conditions for safe storage, including any incompatibilities:

For small containers, keep out of reach of children. Keep tightly closed and store in a cool and well ventilated area. Store only in approved containers and protect from physical damage. Storage should meet OSHA standards. Empty drums should be completely drained, properly bunged, and promptly shipped to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulation. Do not overheat; product will start boiling if heated above 200°F.

#### 8.Exposure controls/ personal protection

8.1 OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available: Component(s):

| Chemical name           | Туре             | Exposure Limit    | Source                 |
|-------------------------|------------------|-------------------|------------------------|
|                         |                  | values            |                        |
| Sodium                  | TWA (vapor,8 hr) | No data available |                        |
| Dodecylbenzenesulfonate |                  |                   |                        |
| Ethylene glycol         | TWA (vapor,8 hr) | 20 ppm            | US. ACGIH Threshold    |
| monobutyl ether         |                  |                   | Limit Values (01 2010) |
| CAS No: 111-76-2        |                  |                   |                        |
| Sodium Hydroxide CAS    | TWA (vapor,8 hr) | 2 mg/m3           | US. ACGIH Threshold    |
| No: 1310-73-2           |                  | _                 | Limit Values (01 2010) |

8.2 Appropriate engineering controls: Use general dilution ventilation and/or local exhaust ventilation to control

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airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

#### 8.3 Individual protection measures, such as personal protective equipment:

- Eye/face protection: Select and use eye/face protection to prevent contact based on the results of an
  exposure assessment. The following eye/face protection(s) are recommended: Safety Glasses with side
  shields
- Skin/hand protection: Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Gloves made from the following material(s) are recommended: Nitrile rubber
- Respiratory protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use and maintenance must be in accordance with regulatory requirements. If applicable, types of respirators to be considered for this material include: half-face air-purifying filter respirator suitable for organic vapors and particulates (P95).

### 9.Physical and chemical properties

| Appearance (physical state, color, etc.):     | Liquid, Purple         |
|---|------------------------|
| Odor:   | Fragrant odor          |
| Odor threshold:                               | Not Determined         |
| pH:   | 13.0                   |
| Melting point/freezing point:                 | Not Applicable         |
| Initial boiling point and boiling range:      | >200 °F                |
| Flash point:                                  | Not Applicable         |
| Evaporation rate:                             | Not Determined         |
| Flammability (solid, gas):                    | Not Applicable         |
| Upper/lower flammability or explosive limits: | Not Applicable         |
| Vapor pressure:                               | Not Determined         |
| Vapor density:                                | Not Determined         |
| Relative density:                             | 1.02 at 77°F (Water=1) |
| Solubility(ies):                              | Soluble                |
| Partition coefficient: n-octanol/water:       | Not Determined         |
| Auto-ignition temperature:                    | Not Determined         |
| Decomposition temperature:                    | Not Determined         |
| Viscosity:                                    | Not Determined         |

| 10.Stability and reactivity |  |
|-----------------------------|--|
|                             |  |

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- **10.1 Reactivity:** This material is considered to be non- reactive under normal use conditions.
- 10.2 Chemical stability: Stable.
- 10.3 Possibility of hazardous reactions: Hazardous polymerization will not occur.
- 10.4 Conditions to avoid (e.g., static discharge, shock, or vibration): Not Applicable
- **10.5** Incompatible materials: Strong oxidizing agents.
- **10.6 Hazardous decomposition products:** Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

#### **11.Toxicological information**

Description of the various toxicological (health) effects and the available data used to identify those effects, including:

- 11.1 Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):
  - Inhalation: It may cause respiratory tract irritation. Do not breathe dust/fume/gas/mist/vapors/spray.
  - Ingestion: May be harmful if ingested. Causes burns and gastrointestinal irritation with nausea, vomiting and diarrhea.
  - Skin contact: Causes severe skin burns.
  - **Eye contact:** Causes serious eye damage.
- 11.2 Symptoms related to the physical, chemical and toxicological characteristics: Not Determined
- **11.3 Delayed and immediate effects and also chronic effects from short- and long-term exposure:** See section 11.1.
- 11.4 Numerical measures of toxicity (such as acute toxicity estimates): Not determined on the mixture.

| Name (Components)                                       | Route                           | Species | Value                                      |
|---|---------------------------------|---------|--|
| Sodium<br>Dodecylbenzenesulfonate<br>CAS No: 25155-30-0 | Dermal                          | Rabbit  | LD50>2000 mg/m3                            |
| "   | Ingestion                       | Rat     | LD50>1080 mg/kg                            |
| "   | Inhalation<br>(Aerosol,4 hours) | Rat     | Moderately toxic<br>(Respirable particles) |
| Ethylene glycol<br>monobutyl ether CAS<br>No:111-76-2   | Dermal                          | Rat     | LD50 > 2000 mg/kg                          |
| "   | Ingestion                       | Rat     | LD50 > 1300 mg/kg                          |
| ££  | Inhalation-vapor<br>(3 hours)   | Rat     | LC50 > 4.9 mg/l                            |
| Sodium Hydroxide<br>CAS No:1310-73-2                    | Dermal                          | Rabbit  | LD50 >1350 mg/m3                           |
| 66  | Ingestion                       | Rat     | LD50 >300 mg/kg                            |
| "   | Inhalation                      |         | No Data Available                          |

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|                      | (4 hours)          |        |                   |
|----------------------|--------------------|--------|-------------------|
| Ethoxylated Alcohols | Dermal             | Rabbit | LD50>5000 mg/m3   |
| Mixture              |                    |        |                   |
| "                    | Ingestion          | Rat    | LD50>2000 mg/kg   |
| "                    | Inhalation-aerosol | Rat    | No Data Available |
|                      | (4 hours)          |        |                   |

#### **Skin Corrosion/Irritation**

| Name (Components)               | Species           | Value                           |
|---------------------------------|-------------------|---------------------------------|
| Sodium Dodecylbenzenesulfonate  | Rabbit            | Cause moderate skin irritation. |
| CAS No: 25155-30-0              |                   |                                 |
| Ethylene glycol monobutyl ether | Rabbit (24 hours) | Moderate irritation             |
| CAS No:111-76-2                 |                   |                                 |
| Sodium Hydroxide                | Human             | Corrosive to skin.              |
| CAS No:1310-73-2                |                   |                                 |
| Ethoxylated Alcohols Mixture    |                   | Moderate irritation             |

#### Serious Eye Damage/Irritation

| Name (Components)                                    | Species           | Value   |
|--|-------------------|---|
| Sodium Dodecylbenzenesulfonate<br>CAS No: 25155-30-0 | Rabbit            | Causes severe eye irritation.                                     |
| Ethylene glycol monobutyl ether<br>CAS No:111-76-2   | Rabbit (24 hours) | Moderate irritation   |
| Sodium Hydroxide<br>CAS No:1310-73-2                 |                   | Corrosive to eyes.  |
| Ethoxylated Alcohols Mixture                         |                   | Causes severe eye irritation.<br>May cause severe corneal injury. |

#### **Respiratory or skin sensitization**

| Name (Components)                                 | Species            | Value                 |
|---|--------------------|-----------------------|
| Sodium Dodecylbenzenesulfonate CAS No: 25155-30-0 | Guinea pigs (Skin) | Negative              |
| Ethylene glycol monobutyl ether CAS No:111-76-2   | Guinea Pig         | Not a skin sensitizer |
| Sodium Hydroxide<br>CAS No:1310-73-2              | Human              | Not a sensitizer      |
| Ethoxylated Alcohols Mixture                      | Human              | No Data Available     |

#### Germ Cell Mutagenicity

| Name (Components)               | Route                            | Value                   |
|---------------------------------|----------------------------------|-------------------------|
| Sodium Dodecylbenzenesulfonate  | In Vivo                          | Negative                |
| CAS No: 25155-30-0              |                                  | _                       |
| "                               | In Vitro                         | Negative                |
| Ethylene glycol monobutyl ether | In Vitro: Salmonella typhimurium | Negative +/- activation |
| CAS No:111-76-2                 | assay (Ames test)                |                         |

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| Sodium Hydroxide<br>CAS No:1310-73-2 | In Vitro: Salmonella typhimurium assay (Ames test) | Negative          |
|--------------------------------------|--|-------------------|
| Ethoxylated Alcohols Mixture         | In Vitro   | No Data Available |

#### Carcinogenicity

| Name (Components)       | Route | Species | Value           |  |
|-------------------------|-------|---------|-----------------|--|
| Sodium                  | Oral  | Rat     | Not classified  |  |
| Dodecylbenzenesulfonate |       |         |                 |  |
| CAS No: 25155-30-0      |       |         |                 |  |
| Ethylene glycol         |       |         | Not Classified. |  |
| monobutyl ether CAS     |       |         |                 |  |
| No:111-76-2             |       |         |                 |  |
| Sodium Hydroxide        |       |         | Not Classified. |  |
| CAS No:1310-73-2        |       |         |                 |  |
| Ethoxylated Alcohols    |       |         | Not Classified. |  |
| Mixture                 |       |         |                 |  |

#### **Reproductive toxicity**

| Name (Components)                                       | Route | Species | Value                   | Test Result    | Exposure<br>Duration |
|---|-------|---------|-------------------------|----------------|----------------------|
| Sodium<br>Dodecylbenzenesulfonate<br>CAS No: 25155-30-0 | Oral  | Rat     |                         | Not classified |                      |
| Ethylene glycol<br>monobutyl ether CAS<br>No:111-76-2   |       |         | Not Classified          |                |                      |
| Sodium Hydroxide<br>CAS No:1310-73-2                    |       |         | No relevant data found. |                |                      |
| Ethoxylated Alcohols<br>Mixture                         |       |         | No relevant data found. |                |                      |

### Specific Target Organ Toxicity - single exposure

| Name (components)                                       | Route      | Species | Target<br>Organ              | Value                                      | Test<br>Result | Exposure<br>Duration |
|---|------------|---------|------------------------------|--|----------------|----------------------|
| Sodium<br>Dodecylbenzenesulfonate<br>CAS No: 25155-30-0 |            |         |                              | No data<br>available                       |                |                      |
| Ethylene glycol<br>monobutyl ether CAS<br>No:111-76-2   | Inhalation |         | Central<br>Nervous<br>System | May cause<br>drowsiness<br>or<br>dizziness | NOAEL          |                      |
| Sodium Hydroxide<br>CAS No:1310-73-2                    |            |         |                              | No relevant data found.                    |                |                      |
| Ethoxylated Alcohols<br>Mixture                         |            |         |                              | No relevant data found.                    |                |                      |

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#### Specific Target Organ Toxicity - repeated exposure

| Name (components)                                       | Route          | Species                   | Target Organ  | Value                            | Test<br>Result                 | Exposure<br>Duration |
|---|----------------|---------------------------|---|----------------------------------|--------------------------------|----------------------|
| Sodium<br>Dodecylbenzenesulfonate<br>CAS No: 25155-30-0 | Oral<br>Dermal | Rodent/<br>non-<br>rodent | Kindeys/haematologic<br>Effects/Growth<br>retardation |                                  | NOAEL<br>85<br>mg/kg<br>bw/day | 9 months             |
| Ethylene glycol<br>monobutyl ether CAS<br>No:111-76-2   | Dermal         | Rat                       |   | 150<br>mg/kg                     | NOAEL                          |                      |
| Sodium Hydroxide<br>CAS No:1310-73-2                    |                |                           |   | No<br>relevant<br>data<br>found. |                                |                      |
| Ethoxylated Alcohols<br>Mixture                         |                |                           |   | No<br>relevant<br>data<br>found. |                                |                      |

#### **Aspiration Hazard**

| Name (Components)                               | Value                                 |
|---|---------------------------------------|
| Sodium Dodecylbenzenesulfonate                  | No data available                     |
| CAS No: 25155-30-0                              |                                       |
| Ethylene glycol monobutyl ether CAS No:111-76-2 | Aspiration Hazard Toxicity Category 1 |
| Sodium Hydroxide                                | No relevant data found.               |
| CAS No:1310-73-2                                |                                       |
| Ethoxylated Alcohols Mixture                    | Aspiration Hazard Toxicity Category 1 |

### **12.Ecological information**

- 12.1 Ecotoxicity (aquatic and terrestrial, where available): Not determined
- 12.2 Persistence and degradability: Not determined
- 12.3 Bioaccumulative potential: Not determined
- **12.4 Mobility in soil:** Not determined
- 12.5 Other adverse effects (such as hazardous to the ozone layer): Not determined

#### **13.Disposal considerations**

13.1 Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging: Dispose of contents/ container in accordance with the local/regional/national/international regulations. Do not contaminate any lakes, streams, ponds, or underground

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water supplies.

**Empty Container Warning** Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death.

#### 14.Transport information

Because this product is produced and shipped in several different container sizes, domestically and internationally, please consult your transportation specialist for the proper shipping name and class.

- 14.1 UN number: Not Regulated
- 14.2 UN proper shipping name: Not Regulated
- 14.3 Transport hazard class(es): Not Regulated
- 14.4 Packing group, if applicable: Not Regulated
- 14.5 Environmental hazards (e.g., Marine pollutant (Yes/No)): Not determined
- 14.6 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not determined
- 14.7 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises: Not determined

#### **15.Regulatory information**

- 15.1 Safety, health and environmental regulations specific for the product in question:
  - OSHA Hazard Communication Standard: This material is classified as hazardous in accordance with OSHA 29 CFR 1910.1200 (see section 2).
  - TSCA: Components of this product are listed on the TSCA Inventory.
  - SARA Title III, Section 302 (Extremely Hazardous Substances): None
  - SARA Title III, Section 313: This product contains 2-Butoxyethanol (CAS No: 111-76-2 ≤ 7.00%) which is subject to the reporting requirements of SARA Title III.
  - SARA Title III, Section 311/312 Classifications:
     Fire Hazard: No
     Immediate Hazard: Yes
     Delayed Hazard: No
  - CERCLA Hazardous Substances: This material contains Sodium Hydroxide (CAS No: 1310-73-2 ≤ 2.00% wt) which is subject to reporting (Reportable Quantity is1000 lbs) under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). Contact local authorities to determine if other reporting requirements apply.
  - Clean Air Act Section 112(r): None
  - CLEAN WATER ACT/OIL POLLUTION ACT: None
  - CA PROP 65:

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WARNING! This product contains a chemical known to the State of California to cause cancer: None WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm: None

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

### 16.Other information including date of preparation or last revision

| Full text of H-Statements referred to under sections 2 and 3:<br>H227: Combustible liquid.<br>H227: Combustible liquid.<br>H303: May be corrosive to metals.<br>H303: May be harmful if swallowed.<br>H314: Causes sevine skin burns and eye damage.<br>H315: Causes seriols exe damage.<br>H316: Causes serious eye damage.<br>H317: Causes serious eye damage.<br>H318: Causes serious eye damage.<br>H319: Causes serious eye irritation.<br>H336: May cause respiratory irritation.<br>H336: May cause respiratory irritation.<br>H336: May cause drowsiness or dizziness.<br>Acute Tox.3 or 4: Acute Toxicity Category 3 or 4<br>Eye Dam,/Irrit.1 or 2: Eye Damage/Irritation Category 1 or 2<br>Flam. Liq.2 or 3 or 4: Flammable Liquid Category 2 or 3 or 4<br>Skin Corr./Irrit.1 or 2: Eye Damage/Irritation Category 1 or 2 or 3<br>STOT SES: Specific Target Organ Toxicity Single Exposure Category 3<br>Sources of key data used to compile the Safety Data Sheet:<br>International Agency for Research on Cancer<br>International Agency for Research on Cancer<br>International Maritime Organization: International Maritime Dangerous Goods Code<br>Components supplier data<br>Globally harmonized system of classification and labeling of chemicals (GHS Rev.5 <sup>th</sup> e.2013)<br>European Chemicals Agency website<br>EU Registration, Evaluation and Response, Compensation, and Liability Act (CERCLA)<br>US California Proposition 65<br>US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)<br>US Department of Health & Human Services. National Toxicloy Program<br>US Department of Transport DOT 49 CFR<br>US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)<br>US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication<br>Standard)<br>US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)<br>US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)<br>US Toxic Substances Control Act (TSCA)  |   |
|---|---|
| H290: May be corrosive to metals.<br>H303: May be harmful if swallowed.<br>H314: Causes severe skin burns and eye damage.<br>H315: Causes skin irritation.<br>H316: Causes serious eye damage.<br>H317: Causes serious eye damage.<br>H318: Causes serious eye dirritation.<br>H318: Causes serious eye irritation.<br>H319: Causes serious eye irritation.<br>H336: May cause respiratory irritation.<br>H336: May cause respiratory irritation.<br>H336: May cause respiratory irritation.<br>H336: May cause drowsiness or dizziness.<br>Acute Tox:3 or 4: Acute Toxicity Category 3 or 4<br>Eye Dam./Irrit.1 or 2: Eye Damage/Irritation Category 1 or 2<br>Flam. Liq.2 or 3 or 4: Flammable Liquid Category 2 or 3 or 4<br>Skin Corr./Irrit.1 or 2 or 3: Skin Corrosion/Irritation Category 1 or 2 or 3<br>STOT SE3: Specific Target Organ Toxicity Single Exposure Category 3<br><b>Sources of key data used to compile the Safety Data Sheet</b> :<br>International Agency for Research on Cancer<br>International Agency for Research on Cancer<br>International Agency for Research on Cancer<br>International Maritime Organization: International Maritime Dangerous Goods Code<br>Components supplier data<br>Globally harmonized system of classification and labeling of chemicals (GHS Rev.5 <sup>th</sup> e.2013)<br>European Chemicals Agency website<br>EU Registration, Evaluation and Restriction of Chemicals regulation (REACH): Classification and Labeling Inventory<br>US California Proposition 65<br>US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)<br>US Department of Health & Human Services. National Toxicology Program<br>US Department of Transport DOT 49 CFR<br>US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)<br>US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication<br>Standard)<br>US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)<br>US Superfund Amendments and Reauthorization Act (SARA) Title III Sections 302; 311/312 ; 313 | Full text of H-Statements referred to under sections 2 and 3: |
| H303: Ma <sup>5</sup> y be harmful if swallowed.<br>H314: Causes severe skin burns and eye damage.<br>H314: Causes skin irritation.<br>H316: Causes shin irritation.<br>H316: Causes serious eye damage.<br>H318: Causes serious eye damage.<br>H319: Causes serious eye irritation.<br>H336: May cause respiratory irritation.<br>H335: May cause respiratory irritation.<br>H336: May cause drowsiness or dizziness.<br>Acute Tox.3 or 4: Acute Toxicity Category 3 or 4<br>Eye Dam./Irrit.1 or 2: Eye Damage/Irritation Category 1 or 2<br>Flam. Liq.2 or 3 or 4: Flammable Liquid Category 2 or 3 or 4<br>Skin Corr./Irrit.1 or 2 or 3: Skin Corrosion/Irritation Category 1 or 2 or 3<br>STOT SE3: Specific Target Organ Toxicity Single Exposure Category 3<br><b>Sources of key data used to compile the Safety Data Sheet:</b><br>International Agency for Research on Cancer<br>International Agency for Research on Cancer<br>International Agency for Research on Cancer<br>International Martitime Organization: International Maritime Dangerous Goods Code<br>Components supplier data<br>Globally harmonized system of classification and labeling of chemicals (GHS Rev.5 <sup>th</sup> e.2013)<br>European Chemicals Agency website<br>EU Registration, Evaluation and Restriction of Chemicals regulation (REACH): Classification and Labeling Inventory<br>US California Proposition 65<br>US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)<br>US Department of Health & Human Services. National Toxicology Program<br>US Department of Health & Human Services. National Toxicology Program<br>US Department of Health & Human Services. National Toxicology Program<br>US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)<br>US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication<br>Standard)<br>US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)<br>US SOSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)  |   |
| H314: Causes severe skin burns and eye damage.<br>H315: Causes skin irritation.<br>H316: Causes mild skin irritation.<br>H318: Causes serious eye irritation.<br>H318: Causes serious eye irritation.<br>H319: Causes serious eye irritation.<br>H335: May cause respiratory irritation.<br>H336: May cause drowsiness or dizziness.<br>Acute Tox.3 or 4: Acute Toxicity Category 3 or 4<br>Eye Dam./Irrit.1 or 2: Eye Damage/Irritation Category 1 or 2<br>Filam. Liq.2 or 3 or 4: Flammable Liquid Category 2 or 3 or 4<br>Skin Corr./Irrit.1 or 2 or 3: Skin Corrosion/Irritation Category 1 or 2 or 3<br>STOT SE3: Specific Target Organ Toxicity Single Exposure Category 3<br>Sources of key data used to compile the Safety Data Sheet:<br>International Agency for Research on Cancer<br>International Agency for Research on Cancer<br>International Agency for Research on Cancer<br>International Maritime Organization: International Maritime Dangerous Goods Code<br>Components supplier data<br>Globally harmonized system of classification and labeling of chemicals (GHS Rev.5 <sup>th</sup> e.2013)<br>European Chemicals Agency website<br>EU Registration, Evaluation and Restriction of Chemicals regulation (REACH): Classification and Labeling Inventory<br>US California Proposition 65<br>US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)<br>US Department of Health & Human Services. National Toxicology Program<br>US Department of Transport DOT 49 CFR<br>US National Fire Protection Association (NFPA) 704<br>US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)<br>US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication<br>Standard)<br>US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)<br>US Sustinal Agency and Resultorization Act (SARA) Title III Sections 302; 311/312 ; 313   |   |
| H315: Causes skin irritation.<br>H316: Causes mild skin irritation.<br>H318: Causes serious eye damage.<br>H318: Causes serious eye irritation.<br>H336: May cause respiratory irritation.<br>H336: May cause drowsiness or dizziness.<br>Acute Tox.3 or 4: Acute Toxicity Category 3 or 4<br>Eye Dam./Irrit.1 or 2: Eye Damage/Irritation Category 1 or 2<br>Flam. Liq.2 or 3 or 4: Flammable Liquid Category 2 or 3 or 4<br>Skin Corr./Irrit.1 or 2 or 3: Skin Corrosion/Irritation Category 1 or 2 or 3<br>STOT SE3: Specific Target Organ Toxicity Single Exposure Category 3<br>Sources of key data used to compile the Safety Data Sheet:<br>International Agency for Research on Cancer<br>International Agency for Research on Cancer<br>International Air Transport Association: Dangerous Goods Regulations.<br>International Air Transport Association: Dangerous Goods Regulations.<br>International Agency for Research on Cancer<br>Globally harmonized system of classification and labeling of chemicals (GHS Rev.5 <sup>th</sup> e.2013)<br>European Chemicals Agency website<br>EU Registration, Evaluation and Restriction of Chemicals regulation (REACH): Classification and Labeling Inventory<br>US California Proposition 65<br>US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)<br>US Department of Health & Human Services. National Toxicology Program<br>US Department of Transport DOT 49 CFR<br>US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)<br>US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication<br>Standard)<br>US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)<br>US SOHA 29 CFR 1910.000 - Table Z1 (exposure limits)   |   |
| H316: Causes mild skin irritation.<br>H318: Causes serious eye damage.<br>H319: Causes serious eye irritation.<br>H336: May cause respiratory irritation.<br>H336: May cause drowsiness or dizziness.<br>Acute Tox.3 or 4: Acute Toxicity Category 3 or 4<br>Eye Dam./Irrit.1 or 2: Eye Damage/Irritation Category 1 or 2<br>Flam. Liq.2 or 3 or 4: Flammable Liquid Category 2 or 3 or 4<br>Skin Corr./Irrit.1 or 2 or 3: Skin Corrosion/Irritation Category 1 or 2 or 3<br>STOT SE3: Specific Target Organ Toxicity Single Exposure Category 3<br><b>Sources of key data used to compile the Safety Data Sheet:</b><br>International Agency for Research on Cancer<br>International Maritime Organization: International Maritime Dangerous Goods Code<br>Components supplier data<br>Globally harmonized system of classification and labeling of chemicals (GHS Rev.5 <sup>th</sup> e.2013)<br>European Chemicals Agency website<br>EU Registration, Evaluation and Restriction of Chemicals regulation (REACH): Classification and Labeling Inventory<br>US California Proposition 65<br>US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)<br>US Department of Health & Human Services. National Toxicology Program<br>US Department of Transport DOT 49 CFR<br>US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)<br>US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication<br>Standard)<br>US OSHA 29 CFR 1910.000 - Table Z1 (exposure limits)<br>US SUS Superfund Amendments and Reauthorization Act (SARA) Title III Sections 302; 311/312 ; 313  | H314: Causes severe skin burns and eye damage.                |
| H318: Causes serious eye damage.<br>H319: Causes serious eye irritation.<br>H335: May cause respiratory irritation.<br>H336: May cause drowsiness or dizziness.<br>Acute Tox.3 or 4: Acute Toxicity Category 3 or 4<br>Eye Dam./Irrit.1 or 2: Eye Damage/Irritation Category 1 or 2<br>Flam. Liq.2 or 3 or 4: Flammable Liquid Category 2 or 3 or 4<br>Skin Corr./Irrit.1 or 2 or 3: Skin Corrosion/Irritation Category 1 or 2 or 3<br>STOT SE3: Specific Target Organ Toxicity Single Exposure Category 3<br>Sources of key data used to compile the Safety Data Sheet:<br>International Agency for Research on Cancer<br>International Agency for Research on Cancer<br>International Agency for Research on Cancer<br>International Maritime Organization: International Maritime Dangerous Goods Code<br>Components supplier data<br>Globally harmonized system of classification and labeling of chemicals (GHS Rev.5 <sup>th</sup> e.2013)<br>European Chemicals Agency website<br>EU Registration, Evaluation and Restriction of Chemicals regulation (REACH): Classification and Labeling Inventory<br>US California Proposition 65<br>US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)<br>US Department of Health & Human Services. National Toxicology Program<br>US Department of Transport DOT 49 CFR<br>US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)<br>US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication<br>Standard)<br>US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)<br>US SUBA 29 CFR 1910.1000 - Table Z1 (exposure limits)   | H315: Causes skin irritation.                                 |
| H319: Causes serious eye irritation.<br>H336: May cause respiratory irritation.<br>H336: May cause drowsiness or dizziness.<br>Acute Tox.3 or 4: Acute Toxicity Category 3 or 4<br>Eye Dam./Irrit.1 or 2: Eye Damage/Irritation Category 1 or 2<br>Flam. Liq.2 or 3 or 4: Flammable Liquid Category 2 or 3 or 4<br>Skin Corr./Irrit.1 or 2 or 3: Skin Corrosion/Irritation Category 1 or 2 or 3<br>STOT SE3: Specific Target Organ Toxicity Single Exposure Category 3<br><b>Sources of key data used to compile the Safety Data Sheet:</b><br>International Agency for Research on Cancer<br>International Agency for Research on Cancer<br>International Maritime Organization: International Maritime Dangerous Goods Code<br>Components supplier data<br>Globally harmonized system of classification and labeling of chemicals (GHS Rev.5 <sup>th</sup> e.2013)<br>European Chemicals Agency website<br>EU Registration, Evaluation and Restriction of Chemicals regulation (REACH): Classification and Labeling Inventory<br>US California Proposition 65<br>US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)<br>US Department of Health & Human Services. National Toxicology Program<br>US Department of Transport DOT 49 CFR<br>US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)<br>US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)<br>US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)<br>US OSHA 29 CFR 1910.000 - Table Z1 (exposure limits)   |   |
| H335: May cause respiratory irritation.<br>H336: May cause drowsiness or dizziness.<br>Acute Tox.3 or 4: Acute Toxicity Category 3 or 4<br>Eye Dam./Irrit.1 or 2: Eye Damage/Irritation Category 1 or 2<br>Flam. Liq.2 or 3 or 4: Flammable Liquid Category 2 or 3 or 4<br>Skin Corr./Irrit.1 or 2 or 3: Skin Corrosion/Irritation Category 1 or 2 or 3<br>STOT SE3: Specific Target Organ Toxicity Single Exposure Category 3<br>Sources of key data used to compile the Safety Data Sheet:<br>International Agency for Research on Cancer<br>International Agency for Research on Cancer<br>International Maritime Organization: International Maritime Dangerous Goods Regulations.<br>International Maritime Organization: International Maritime Dangerous Goods Code<br>Components supplier data<br>Globally harmonized system of classification and labeling of chemicals (GHS Rev.5 <sup>th</sup> e.2013)<br>European Chemicals Agency website<br>EU Registration, Evaluation and Restriction of Chemicals regulation (REACH): Classification and Labeling Inventory<br>US California Proposition 65<br>US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)<br>US Department of Health & Human Services. National Toxicology Program<br>US Department of Transport DOT 49 CFR<br>US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)<br>US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication<br>Standard)<br>US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)<br>US Superfund Amendments and Reauthorization Act (SARA) Title III Sections 302; 311/312 ; 313   |   |
| H336: May cause drowsiness or dizziness.<br>Acute Tox.3 or 4: Acute Toxicity Category 3 or 4<br>Eye Dam./Irrit.1 or 2: Eye Damage/Irritation Category 1 or 2<br>Flam. Liq.2 or 3 or 4: Flammable Liquid Category 2 or 3 or 4<br>Skin Corr./Irrit.1 or 2 or 3: Skin Corrosion/Irritation Category 1 or 2 or 3<br>STOT SE3: Specific Target Organ Toxicity Single Exposure Category 3<br>Sources of key data used to compile the Safety Data Sheet:<br>International Agency for Research on Cancer<br>International Agency for Research on Cancer<br>International Maritime Organization: International Maritime Dangerous Goods Code<br>Components supplier data<br>Globally harmonized system of classification and labeling of chemicals (GHS Rev.5 <sup>th</sup> e.2013)<br>European Chemicals Agency website<br>EU Registration, Evaluation and Restriction of Chemicals regulation (REACH): Classification and Labeling Inventory<br>US California Proposition 65<br>US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)<br>US Department of Health & Human Services. National Toxicology Program<br>US Department of Transport DOT 49 CFR<br>US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)<br>US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication<br>Standard)<br>US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)<br>US Superfund Amendments and Reauthorization Act (SARA) Title III Sections 302; 311/312 ; 313  |   |
| Acute Tox.3 or 4: Acute Toxicity Category 3 or 4<br>Eye Dam./Irrit.1 or 2: Eye Damage/Irritation Category 1 or 2<br>Flam. Liq.2 or 3 or 4: Flammable Liquid Category 2 or 3 or 4<br>Skin Corr./Irrit.1 or 2 or 3: Skin Corrosion/Irritation Category 1 or 2 or 3<br>STOT SE3: Specific Target Organ Toxicity Single Exposure Category 3<br>Sources of key data used to compile the Safety Data Sheet:<br>International Agency for Research on Cancer<br>International Air Transport Association: Dangerous Goods Regulations.<br>International Maritime Organization: International Maritime Dangerous Goods Code<br>Components supplier data<br>Globally harmonized system of classification and labeling of chemicals (GHS Rev.5 <sup>th</sup> e.2013)<br>European Chemicals Agency website<br>EU Registration, Evaluation and Restriction of Chemicals regulation (REACH): Classification and Labeling Inventory<br>US California Proposition 65<br>US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)<br>US Department of Health & Human Services. National Toxicology Program<br>US Department of Transport DOT 49 CFR<br>US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)<br>US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication<br>Standard)<br>US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)<br>US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)   |   |
| Eye Dam./Irrit.1 or 2: Eye Damage/Irritation Category 1 or 2<br>Flam. Liq.2 or 3 or 4: Flammable Liquid Category 2 or 3 or 4<br>Skin Corr./Irrit.1 or 2 or 3: Skin Corrosion/Irritation Category 1 or 2 or 3<br>STOT SE3: Specific Target Organ Toxicity Single Exposure Category 3<br>Sources of key data used to compile the Safety Data Sheet:<br>International Agency for Research on Cancer<br>International Air Transport Association: Dangerous Goods Regulations.<br>International Maritime Organization: International Maritime Dangerous Goods Code<br>Components supplier data<br>Globally harmonized system of classification and labeling of chemicals (GHS Rev.5 <sup>th</sup> e.2013)<br>European Chemicals Agency website<br>EU Registration, Evaluation and Restriction of Chemicals regulation (REACH): Classification and Labeling Inventory<br>US California Proposition 65<br>US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)<br>US Department of Transport DOT 49 CFR<br>US National Fire Protection Association (NFPA) 704<br>US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)<br>US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication<br>Standard)<br>US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)<br>US Superfund Amendments and Reauthorization Act (SARA) Title III Sections 302; 311/312 ; 313   |   |
| Fiam. Liq.2 or 3 or 4: Fiammable Liquid Category 2 or 3 or 4<br>Skin Corr./Irrit.1 or 2 or 3: Skin Corrosion/Irritation Category 1 or 2 or 3<br>STOT SE3: Specific Target Organ Toxicity Single Exposure Category 3<br>Sources of key data used to compile the Safety Data Sheet:<br>International Agency for Research on Cancer<br>International Maritime Organization: Dangerous Goods Regulations.<br>International Maritime Organization: International Maritime Dangerous Goods Code<br>Components supplier data<br>Globally harmonized system of classification and labeling of chemicals (GHS Rev.5 <sup>th</sup> e.2013)<br>European Chemicals Agency website<br>EU Registration, Evaluation and Restriction of Chemicals regulation (REACH): Classification and Labeling Inventory<br>US California Proposition 65<br>US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)<br>US Department of Health & Human Services. National Toxicology Program<br>US Department of Transport DOT 49 CFR<br>US National Fire Protection Association (NFPA) 704<br>US National Fire Protection Association (NFPA) 704<br>US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication<br>Standard)<br>US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)<br>US Superfund Amendments and Reauthorization Act (SARA) Title III Sections 302; 311/312 ; 313  |   |
| Skin Corr./Irrit.1 or 2 or 3: Skin Corrosion/Irritation Category 1 or 2 or 3<br>STOT SE3: Specific Target Organ Toxicity Single Exposure Category 3<br>Sources of key data used to compile the Safety Data Sheet:<br>International Agency for Research on Cancer<br>International Air Transport Association: Dangerous Goods Regulations.<br>International Maritime Organization: International Maritime Dangerous Goods Code<br>Components supplier data<br>Globally harmonized system of classification and labeling of chemicals (GHS Rev.5 <sup>th</sup> e.2013)<br>European Chemicals Agency website<br>EU Registration, Evaluation and Restriction of Chemicals regulation (REACH): Classification and Labeling Inventory<br>US California Proposition 65<br>US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)<br>US Department of Health & Human Services. National Toxicology Program<br>US Department of Transport DOT 49 CFR<br>US National Fire Protection Association (NFPA) 704<br>US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)<br>US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication<br>Standard)<br>US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)<br>US Superfund Amendments and Reauthorization Act (SARA) Title III Sections 302; 311/312 ; 313  |   |
| STOT SE3: Specific Target Organ Toxicity Single Exposure Category 3<br>Sources of key data used to compile the Safety Data Sheet:<br>International Agency for Research on Cancer<br>International Air Transport Association: Dangerous Goods Regulations.<br>International Maritime Organization: International Maritime Dangerous Goods Code<br>Components supplier data<br>Globally harmonized system of classification and labeling of chemicals (GHS Rev.5 <sup>th</sup> e.2013)<br>European Chemicals Agency website<br>EU Registration, Evaluation and Restriction of Chemicals regulation (REACH): Classification and Labeling Inventory<br>US California Proposition 65<br>US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)<br>US Department of Health & Human Services. National Toxicology Program<br>US Department of Transport DOT 49 CFR<br>US National Fire Protection Association (NFPA) 704<br>US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)<br>US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication<br>Standard)<br>US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)<br>US Superfund Amendments and Reauthorization Act (SARA) Title III Sections 302; 311/312 ; 313  |   |
| Sources of key data used to compile the Safety Data Sheet:<br>International Agency for Research on Cancer<br>International Air Transport Association: Dangerous Goods Regulations.<br>International Maritime Organization: International Maritime Dangerous Goods Code<br>Components supplier data<br>Globally harmonized system of classification and labeling of chemicals (GHS Rev.5 <sup>th</sup> e.2013)<br>European Chemicals Agency website<br>EU Registration, Evaluation and Restriction of Chemicals regulation (REACH): Classification and Labeling Inventory<br>US California Proposition 65<br>US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)<br>US Department of Health & Human Services. National Toxicology Program<br>US Department of Transport DOT 49 CFR<br>US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)<br>US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication<br>Standard)<br>US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)<br>US Superfund Amendments and Reauthorization Act (SARA) Title III Sections 302; 311/312 ; 313   |   |
| International Agency for Research on Cancer<br>International Air Transport Association: Dangerous Goods Regulations.<br>International Maritime Organization: International Maritime Dangerous Goods Code<br>Components supplier data<br>Globally harmonized system of classification and labeling of chemicals (GHS Rev.5 <sup>th</sup> e.2013)<br>European Chemicals Agency website<br>EU Registration, Evaluation and Restriction of Chemicals regulation (REACH): Classification and Labeling Inventory<br>US California Proposition 65<br>US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)<br>US Department of Health & Human Services. National Toxicology Program<br>US Department of Transport DOT 49 CFR<br>US National Fire Protection Association (NFPA) 704<br>US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)<br>US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication<br>Standard)<br>US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)<br>US Superfund Amendments and Reauthorization Act (SARA) Title III Sections 302; 311/312 ; 313   |   |
| International Air Transport Association: Dangerous Goods Regulations.<br>International Maritime Organization: International Maritime Dangerous Goods Code<br>Components supplier data<br>Globally harmonized system of classification and labeling of chemicals (GHS Rev.5 <sup>th</sup> e.2013)<br>European Chemicals Agency website<br>EU Registration, Evaluation and Restriction of Chemicals regulation (REACH): Classification and Labeling Inventory<br>US California Proposition 65<br>US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)<br>US Department of Health & Human Services. National Toxicology Program<br>US Department of Transport DOT 49 CFR<br>US National Fire Protection Association (NFPA) 704<br>US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)<br>US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication<br>Standard)<br>US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)<br>US Superfund Amendments and Reauthorization Act (SARA) Title III Sections 302; 311/312 ; 313  |   |
| International Maritime Organization: International Maritime Dangerous Goods Code<br>Components supplier data<br>Globally harmonized system of classification and labeling of chemicals (GHS Rev.5 <sup>th</sup> e.2013)<br>European Chemicals Agency website<br>EU Registration, Evaluation and Restriction of Chemicals regulation (REACH): Classification and Labeling Inventory<br>US California Proposition 65<br>US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)<br>US Department of Health & Human Services. National Toxicology Program<br>US Department of Transport DOT 49 CFR<br>US National Fire Protection Association (NFPA) 704<br>US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)<br>US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication<br>Standard)<br>US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)<br>US Superfund Amendments and Reauthorization Act (SARA) Title III Sections 302; 311/312 ; 313   |   |
| Components supplier data<br>Globally harmonized system of classification and labeling of chemicals (GHS Rev.5 <sup>th</sup> e.2013)<br>European Chemicals Agency website<br>EU Registration, Evaluation and Restriction of Chemicals regulation (REACH): Classification and Labeling Inventory<br>US California Proposition 65<br>US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)<br>US Department of Health & Human Services. National Toxicology Program<br>US Department of Transport DOT 49 CFR<br>US National Fire Protection Association (NFPA) 704<br>US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)<br>US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication<br>Standard)<br>US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)<br>US Superfund Amendments and Reauthorization Act (SARA) Title III Sections 302; 311/312 ; 313   |   |
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|   |   |
| US Toxic Substances Control Act (TSCA)  |   |
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## SAFETY DATA SHEET

### Water Based Engine Degreaser (VOC Compliant)

SDS No: 4011-1

Version: 1.1 (REG\_29 CFR 1910.1200 /REG\_GHS Rev.5<sup>th</sup> e.2013) Date of last Revision: 08/19/2014

| Key or legend to abbreviations and acronyms used in the safety data sheet:  |
|---|
| ACGIH - American Conference of Governmental Industrial Hygienists   |
| CAS No - Chemical Abstract System No.   |
| CERCLA- US Comprehensive Environmental Response, Compensation, and Liability Act                                    |
| COC - Cleveland Open Cup (flash and fire point)   |
| DOT -Department Of Transportation   |
| EPA - Environmental Protection Agency   |
| IARC - International Agency for Research on Cancer  |
| IATA - International Air Transport Association  |
| IMDG - International Maritime Dangerous Goods code  |
| mg/m <sup>3</sup> - milligrams per cubic meter  |
| mg/l - milligrams per liter   |
| NIOSH - National Institute for Occupational Safety and Health   |
| NFPA- US National Fire Protection Association   |
| NTP - National Toxicology Program   |
| OSHA - Occupational Safety and Health Administration  |
| OEL-Occupational Exposure Limits  |
| PEL - Permissible Exposure Limits   |
| ppb - Parts Per Billion   |
| ppm - Parts Per Million   |
| PMCC - Pensky-Martin Closed Cup (flash point)   |
| RCRA - EPA Resource Conservation and Recovery Act   |
| SARA - Superfund Amendments and Reauthorization Act Title I, II, III  |
| SDS - Safety Data Sheet   |
| STEL- Short Term Exposure Limit   |
| TCC - Tag Closed Cup (flash point)  |
| TLV - Threshold Limit Value   |
| TWA - Time Weighted Average Exposure  |
| < - Less than > - More than   |
| Procedure used to derive the classification for mixtures according to Regulations 29 CFR 1900.1200 and GHS          |
| Rev.5 <sup>th</sup> e.2013:   |
| Calculation method: Classification of mixtures based on ingredients of the mixture.                                 |
| LEGAL DISCLAIMER:   |
| LEGAL DISOLAIMEN.   |
| The information contained in this document is based upon data believed to be reliable at the time of preparing      |
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storage, use or disposal of the product.

Prepared by: J.B.Chemical Regulatory Affairs

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