



# SAFETY DATA SHEET

## 1. Identification

|   |  |                |
|---|--|----------------|
| <b>Product identifier</b>                                     | <b>Epic Medium Duty Compound</b>                         |                |
| <b>Other means of identification</b>                          |  |                |
| <b>Product Code</b>   | 1091   |                |
| <b>Recommended use</b>  | Not available.   |                |
| <b>Recommended restrictions</b>                               | None known.  |                |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |  |                |
| <b>Manufacturer</b>   |  |                |
| <b>Company name</b>   | Malco Products, Inc.                                     |                |
| <b>Address</b>  | 361 Fairview Ave<br>Barberton, OH 44203<br>United States |                |
| <b>Telephone</b>  | Phone  | 800-253-2526   |
|   | Fax  | 330-753-2025   |
| <b>Website</b>  | www.malcopro.com   |                |
| <b>E-mail</b>   | msdsinfo@malcopro.com                                    |                |
| <b>Contact person</b>   | Technical Department                                     |                |
| <b>Emergency phone number</b>                                 | Phone  | 1-800-424-9300 |

## 2. Hazard(s) identification

|                              |   |             |
|------------------------------|---|-------------|
| <b>Physical hazards</b>      | Not classified.                                   |             |
| <b>Health hazards</b>        | Acute toxicity, oral                              | Category 5  |
|                              | Acute toxicity, inhalation                        | Category 5  |
|                              | Serious eye damage/eye irritation                 | Category 2A |
|                              | Specific target organ toxicity, repeated exposure | Category 2  |
| <b>Environmental hazards</b> | Not classified.                                   |             |
| <b>OSHA defined hazards</b>  | Not classified.                                   |             |
| <b>Label elements</b>        |   |             |



|  |   |
|--|---|
| <b>Signal word</b>                               | Warning   |
| <b>Hazard statement</b>                          | May be harmful if swallowed. Causes serious eye irritation. May be harmful if inhaled. May cause damage to organs through prolonged or repeated exposure.   |
| <b>Precautionary statement</b>                   |   |
| <b>Prevention</b>                                | Do not breathe mist/vapors. Wash thoroughly after handling. Wear eye protection/face protection.  |
| <b>Response</b>                                  | IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. |
| <b>Storage</b>                                   | Store away from incompatible materials.   |
| <b>Disposal</b>                                  | Dispose of contents/container in accordance with local/regional/national/international regulations.   |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known.   |
| <b>Supplemental information</b>                  | 44.42% of the mixture consists of component(s) of unknown acute dermal toxicity. 40.42% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 40.42% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.                        |

### 3. Composition/information on ingredients

#### Mixtures

| Chemical name                                  | Common name and synonyms | CAS number | %         |
|--|--------------------------|------------|-----------|
| dialuminum;oxygen(2-)                          |                          | 1344-28-1  | 10 - < 20 |
| Distillates (Petroleum),<br>Hydrotreated Light |                          | 64742-47-8 | 10 - < 20 |
| KEROSENE                                       |                          | 8008-20-6  | 5 - < 10  |
| propane-1,2,3-triol                            |                          | 56-81-5    | 5 - < 10  |
| sodium;hydroxide                               |                          | 1310-73-2  | < 0.2     |
| Other components below reportable levels       |                          |            | 60 - < 70 |

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

|   |  |
|---|--|
| <b>Inhalation</b>   | If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.  |
| <b>Skin contact</b>   | Wash off with soap and water. Get medical attention if irritation develops and persists.   |
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.  |
| <b>Ingestion</b>  | Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.                              |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects.  |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.   |
| <b>General information</b>  | If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. |

### 5. Fire-fighting measures

|  |  |
|--|--|
| <b>Suitable extinguishing media</b>                                  | Alcohol resistant foam. Powder. Dry chemicals. Carbon dioxide (CO <sub>2</sub> ).              |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.                         |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed.  |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.  |
| <b>Fire fighting equipment/instructions</b>                          | Cool containers exposed to heat with water spray and remove container, if no risk is involved. |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.     |
| <b>General fire hazards</b>  | Will burn if involved in a fire. No unusual fire or explosion hazards noted.                   |

### 6. Accidental release measures

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
| <b>Methods and materials for containment and cleaning up</b>               | Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.<br><br>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  |
| <b>Environmental precautions</b>   | Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.<br><br>Avoid discharge into drains, water courses or onto the ground.  |

## 7. Handling and storage

### Precautions for safe handling

Do not breathe mist/vapors. Do not taste or swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Keep away from heat and sources of ignition. Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

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

| Components                               | Type | Value    | Form                 |
|--|------|----------|----------------------|
| dialuminum;oxygen(2-)<br>(CAS 1344-28-1) | PEL  | 5 mg/m3  | Respirable fraction. |
|  |      | 15 mg/m3 | Total dust.          |
| propane-1,2,3-triol (CAS<br>56-81-5)     | PEL  | 5 mg/m3  | Respirable fraction. |
|  |      | 15 mg/m3 | Total dust.          |
| sodium;hydroxide (CAS<br>1310-73-2)      | PEL  | 2 mg/m3  |                      |

#### US. ACGIH Threshold Limit Values

| Components                          | Type    | Value     | Form         |
|-------------------------------------|---------|-----------|--------------|
| KEROSENE (CAS<br>8008-20-6)         | TWA     | 200 mg/m3 | Non-aerosol. |
| sodium;hydroxide (CAS<br>1310-73-2) | Ceiling | 2 mg/m3   |              |

#### US. NIOSH: Pocket Guide to Chemical Hazards

| Components                          | Type    | Value     |
|-------------------------------------|---------|-----------|
| KEROSENE (CAS<br>8008-20-6)         | TWA     | 100 mg/m3 |
| sodium;hydroxide (CAS<br>1310-73-2) | Ceiling | 2 mg/m3   |

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### Exposure guidelines

#### US ACGIH Threshold Limit Values: Skin designation

KEROSENE (CAS 8008-20-6)

Danger of cutaneous absorption

### Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

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

#### Eye/face protection

Chemical respirator with organic vapor cartridge and full facepiece.

#### Skin protection

##### Hand protection

Wear appropriate chemical resistant gloves.

##### Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

#### Respiratory protection

Chemical respirator with organic vapor cartridge and full facepiece.

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

### General hygiene considerations

Keep away from food and drink. 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 and chemical properties

### Appearance

#### Physical state

Liquid.

|   |                  |
|---|------------------|
| <b>Form</b>   | Liquid. Viscous. |
| <b>Color</b>  | Light orange     |
| <b>Odor</b>   | None.            |
| <b>Odor threshold</b>                               | Not available.   |
| <b>pH</b>   | Not available.   |
| <b>Melting point/freezing point</b>                 | Not available.   |
| <b>Initial boiling point and boiling range</b>      | Not available.   |
| <b>Flash point</b>                                  | Not available.   |
| <b>Evaporation rate</b>                             | Not available.   |
| <b>Flammability (solid, gas)</b>                    | Not applicable.  |
| <b>Upper/lower flammability or explosive limits</b> |                  |
| <b>Explosive limit - lower (%)</b>                  | Not available.   |
| <b>Explosive limit - upper (%)</b>                  | Not available.   |
| <b>Vapor pressure</b>                               | Not available.   |
| <b>Vapor density</b>                                | Not available.   |
| <b>Relative density</b>                             | Not available.   |
| <b>Solubility(ies)</b>                              |                  |
| <b>Solubility (water)</b>                           | Not available.   |
| <b>Auto-ignition temperature</b>                    | Not available.   |
| <b>Decomposition temperature</b>                    | Not available.   |
| <b>Viscosity</b>                                    | 35000 cP         |
| <b>Viscosity temperature</b>                        | 68 °F (20 °C)    |
| <b>Other information</b>                            |                  |
| <b>Explosive properties</b>                         | Not explosive.   |
| <b>Oxidizing properties</b>                         | Not oxidizing.   |
| <b>Specific gravity</b>                             | 1.05             |
| <b>VOC</b>  | 8 % estimated    |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>Conditions to avoid</b>                | Contact with incompatible materials.  |
| <b>Incompatible materials</b>             | Acids. Strong oxidizing agents. Chlorine.   |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.  |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | May be harmful if inhaled.                           |
| <b>Skin contact</b> | No adverse effects due to skin contact are expected. |
| <b>Eye contact</b>  | Causes serious eye irritation.                       |
| <b>Ingestion</b>    | May be harmful if swallowed.                         |

**Symptoms related to the physical, chemical and toxicological characteristics** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

### Information on toxicological effects

**Acute toxicity** May be harmful if inhaled. May be harmful if swallowed.

| Components  | Species  | Test Results          |
|---|--|-----------------------|
| KEROSENE (CAS 8008-20-6)  |  |                       |
| <b>Acute</b>  |  |                       |
| <b>Inhalation</b>   |  |                       |
| LC50  | -  | > 5200 mg/m3, 4 Hours |
| propane-1,2,3-triol (CAS 56-81-5)                                     |  |                       |
| <b>Acute</b>  |  |                       |
| <b>Inhalation</b>   |  |                       |
| LC50  | -  | > 570 mg/m3, 1 Hours  |
| <b>Skin corrosion/irritation</b>                                      | Prolonged skin contact may cause temporary irritation.   |                       |
| <b>Serious eye damage/eye irritation</b>                              | Causes serious eye irritation.   |                       |
| <b>Respiratory or skin sensitization</b>                              |  |                       |
| <b>Respiratory sensitization</b>                                      | Not a respiratory sensitizer.  |                       |
| <b>Skin sensitization</b>   | This product is not expected to cause skin sensitization.  |                       |
| <b>Germ cell mutagenicity</b>   | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |                       |
| <b>Carcinogenicity</b>  | Not classifiable as to carcinogenicity to humans.  |                       |
| <b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>         |  |                       |
| Not listed.   |  |                       |
| <b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)</b> |  |                       |
| Not listed.   |  |                       |
| <b>US. National Toxicology Program (NTP) Report on Carcinogens</b>    |  |                       |
| Not listed.   |  |                       |
| <b>Reproductive toxicity</b>  | This product is not expected to cause reproductive or developmental effects.                                     |                       |
| <b>Specific target organ toxicity - single exposure</b>               | Not classified.  |                       |
| <b>Specific target organ toxicity - repeated exposure</b>             | May cause damage to organs through prolonged or repeated exposure.   |                       |
| <b>Aspiration hazard</b>  | Not an aspiration hazard.  |                       |
| <b>Chronic effects</b>  | Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure.          |                       |

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Components   | Species | Test Results   |
|--|---------|--|
| Distillates (Petroleum), Hydrotreated Light (CAS 64742-47-8) |         |  |
| <b>Aquatic</b>   |         |  |
| <i>Acute</i>   |         |  |
| Fish   | LC50    | Rainbow trout,donaldson trout (Oncorhynchus mykiss) 2.9 mg/l, 96 hours                 |
| propane-1,2,3-triol (CAS 56-81-5)                            |         |  |
| <b>Aquatic</b>   |         |  |
| <i>Acute</i>   |         |  |
| Fish   | LC50    | Rainbow trout,donaldson trout (Oncorhynchus mykiss) >= 51000 - <= 57000 mg/l, 96 hours |
| sodium;hydroxide (CAS 1310-73-2)                             |         |  |
| <b>Aquatic</b>   |         |  |
| <i>Acute</i>   |         |  |
| Fish   | LC50    | Western mosquitofish (Gambusia affinis) 125 mg/l, 96 hours                             |

**Persistence and degradability** No data is available on the degradability of any ingredients in the mixture.

### Bioaccumulative potential

#### Partition coefficient n-octanol / water (log Kow)

propane-1,2,3-triol -1.76

|                              |  |
|------------------------------|--|
| <b>Mobility in soil</b>      | No data available.   |
| <b>Other adverse effects</b> | The product contains volatile organic compounds which have a photochemical ozone creation potential. |

### 13. Disposal considerations

|  |  |
|--|--|
| <b>Disposal instructions</b>                 | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.                         |
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.   |
| <b>Hazardous waste code</b>                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.   |
| <b>Waste from residues / unused products</b> | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| <b>Contaminated packaging</b>                | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.       |

### 14. Transport information

|   |                                   |
|---|-----------------------------------|
| <b>DOT</b>  | Not regulated as dangerous goods. |
| <b>IATA</b>   | Not regulated as dangerous goods. |
| <b>IMDG</b>   | Not regulated as dangerous goods. |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not established.                  |

### 15. Regulatory information

|   |  |                 |
|---|--|-----------------|
| <b>US federal regulations</b>   | This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.                                 |                 |
| <b>Toxic Substances Control Act (TSCA)</b>  | One or more components of the mixture are not on the TSCA 8(b) inventory or are designated "inactive".   |                 |
| <b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>                    | Not regulated.   |                 |
| <b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>                                   | sodium;hydroxide (CAS 1310-73-2)   | Listed.         |
| <b>SARA 304 Emergency release notification</b>  | Not regulated.   |                 |
| <b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)</b>                   | Not listed.  |                 |
| <b>Superfund Amendments and Reauthorization Act of 1986 (SARA)</b>                      |  |                 |
| <b>SARA 302 Extremely hazardous substance</b>   | Not listed.  |                 |
| <b>SARA 311/312 Hazardous chemical</b>  | Yes  |                 |
| <b>Classified hazard categories</b>   | Acute toxicity (any route of exposure)<br>Serious eye damage or eye irritation<br>Specific target organ toxicity (single or repeated exposure) |                 |
| <b>SARA 313 (TRI reporting)</b>   |  |                 |
| <b>Chemical name</b>  | <b>CAS number</b>  | <b>% by wt.</b> |
| dialuminum;oxygen(2-)   | 1344-28-1  | 10 - < 20       |
| <b>Other federal regulations</b>  |  |                 |
| <b>Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List</b>             | Not regulated.   |                 |
| <b>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)</b> | Not regulated.   |                 |
| <b>Safe Drinking Water Act (SDWA)</b>   | Not regulated.   |                 |

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

propane-1,2,3-triol (CAS 56-81-5)

Other Flavoring Substances with OSHA PEL's

**US state regulations****US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**KEROSENE (CAS 8008-20-6)  
sodium;hydroxide (CAS 1310-73-2)**California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**International Inventories**

| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Canada                      | Domestic Substances List (DSL)                | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)           | No                     |
| 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)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision****Issue date** 03-15-2017**Revision date** 07-18-2023**Version #** 17**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Malco Products, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

**Revision information** Physical & Chemical Properties: Multiple Properties