



**ZORMOT**  
INTERNATIONAL, INC.

## SAFETY DATA SHEET

### 1. Identification

Product identifier

ZI-080-5

8408 CORROSION PROTECTANT

Other means of identification

SDS number

Not applicable

Recommended use

CORROSION PREVENTIVE

Recommended restrictions

None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name



**ZORMOT INTERNATIONAL, INC.**

1372 Rosewood St.

Jenison, MI 49429

Telephone (General Information)

1-800-459-5422

Emergency telephone number

Emergency telephone number (outside USA)

616-457-5442

### 2. Hazard(s) identification

Physical hazards

Flammable liquids

Category 3

Health hazards

Acute toxicity, inhalation

Category 4

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 2

Specific target organ toxicity, single exposure

Category 3 narcotic effects

Environmental hazards

Not classified.

OSHA defined hazards

Not classified.

Label elements



Signal word

Warning

Hazard statement

Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause drowsiness or dizziness.

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ground/bond container and receiving equipment. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.

Response

IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. 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 advice/attention. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a poison center/doctor if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash before reuse.

Storage

Keep container tightly closed. Protect from sunlight. Store in a well-ventilated place. Store away from incompatible materials. Store in accordance with local/regional/national/international regulation.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

SDS US

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Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

48.85% of the mixture consists of component(s) of unknown acute inhalation toxicity.

### 3. Composition/information on ingredients

#### Mixtures

| Chemical name  | Common name and synonyms | CAS number | %       |
|--|--------------------------|------------|---------|
| PETROLEUM DISTILLATES, HYDROTREATED LIGHT            |                          | 64742-47-8 | 15 - 40 |
| PETROLEUM DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC |                          | 64742-52-5 | 10 - 30 |
| Other components below reportable levels             |                          |            | 30 - 60 |

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

### 4. First-aid measures

#### Inhalation

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.

#### Skin contact

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

#### Eye contact

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 symptoms occur.

#### Ingestion

Rinse mouth thoroughly. Do not induce vomiting. Do not give liquids. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

#### Most important symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. Defatting of the skin. May cause drowsiness or dizziness. May cause respiratory irritation.

#### Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

#### General information

If exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.

### 5. Fire-fighting measures

#### Suitable extinguishing media

Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

#### Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

#### Special protective equipment and precautions for firefighters

Wear suitable protective equipment.

#### Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk.

#### Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.

#### General fire hazards

Flammable liquid and vapor.

### 6. Accidental release measures

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

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.



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

Local authorities should be advised if significant spillages cannot be contained. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. The product is immiscible with water and will spread on the water surface.

**Large Spills:** Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean up in accordance with all applicable regulations. Following product recovery, flush area with water.

**Small Spills:** Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

#### Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment. Use appropriate containment to avoid environmental contamination.

### 7. Handling and storage

#### Precautions for safe handling

When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

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

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. To maintain product quality, do not store in heat or direct sunlight. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS). Keep this material away from food, drink and animal feed. Do not allow material to freeze. If frozen, product may separate. Thaw completely at room temperature and stir thoroughly prior to use.

### 8. Exposure controls/personal protection

#### Occupational exposure limits

##### U.S. - OSHA

|   | Type | Value   |
|---|------|---------|
| PETROLEUM DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5) | PEL  | 5 mg/m3 |
| PETROLEUM DISTILLATES, HYDROTREATED LIGHT (CAS 64742-47-8)            | PEL  | 5 mg/m3 |

##### ACGIH

|   | Type | Value   |
|---|------|---------|
| PETROLEUM DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5) | TWA  | 5 mg/m3 |
| PETROLEUM DISTILLATES, HYDROTREATED LIGHT (CAS 64742-47-8)            | TWA  | 5 mg/m3 |

#### Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) 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. Eye wash fountain and emergency showers are recommended.



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

|                                |   |
|--------------------------------|---|
| Eye/face protection            | Wear safety glasses with side shields (or goggles). Do not get in eyes. Eye wash fountain is recommended.   |
| Skin protection                |   |
| Hand protection                | Use protective gloves made of: Nitrile.   |
| Other                          | Wear suitable protective clothing and gloves.   |
| Respiratory protection         | Not available.  |
| Thermal hazards                | Wear appropriate thermal protective clothing, when necessary.   |
| General hygiene considerations | When using, do not eat, drink or smoke. Do not get in eyes, on skin, on clothing. 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                                   | CLEAR                               |
| Physical state                               | Liquid.                             |
| Form   | Liquid.                             |
| Color  | Not available.                      |
| Odor   | CHEMICAL                            |
| Odor threshold                               | Not available.                      |
| pH   | Not Applicable                      |
| Melting point/freezing point                 | < 32 °F (< 0 °C) estimated          |
| Initial boiling point and boiling range      | > 340 °F (> 171.11 °C) estimated    |
| Flash point                                  | 120 °F (48.9 °C) Cleveland Open Cup |
| Evaporation rate                             | Not available.                      |
| Flammability (solid, gas)                    | Not applicable.                     |
| Upper/lower flammability or explosive limits |                                     |
| Explosive limit - lower (%)                  | 0.6 %                               |
| Explosive limit - upper (%)                  | 4.5 %                               |
| Vapor pressure                               | Not available.                      |
| Vapor density                                | Not available.                      |
| Relative density                             | Not available.                      |
| Solubility(ies)                              | Insoluble                           |
| Partition coefficient (n-octanol/water)      | Not available.                      |
| Auto-ignition temperature                    | Not available.                      |
| Decomposition temperature                    | Not available.                      |
| Viscosity                                    | Not available.                      |
| Other information                            |                                     |
| Flash point class                            | Combustible II                      |
| Specific gravity                             | 0.9                                 |
| VOC ASTM D2369                               | 36 %                                |

**10. Stability and reactivity**

|                                    |  |
|------------------------------------|--|
| Reactivity                         | The product is stable and non-reactive under normal conditions of use, storage and transport.  |
| Chemical stability                 | Material is stable under normal conditions.  |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.   |
| Conditions to avoid                | Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| Incompatible materials             | Avoid contact with oxidizers or reducing agents.   |



Hazardous decomposition products

Smoke, fumes, and oxides of carbon

## 11. Toxicological information

### Information on likely routes of exposure

|  |   |
|--|---|
| Inhalation   | Harmful if inhaled. May cause drowsiness and dizziness.   |
| Skin contact   | Causes skin irritation. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.   |
| Eye contact  | Causes serious eye irritation.  |
| Ingestion  | May be harmful if swallowed. Expected to be a low ingestion hazard.   |
| Symptoms related to the physical, chemical and toxicological characteristics | May cause drowsiness and dizziness. May cause respiratory irritation. Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. Defatting of the skin. |

### Information on toxicological effects

|                |   |
|----------------|---|
| Acute toxicity | Harmful if inhaled. Narcotic effects. Expected to be a low hazard for usual industrial or commercial handling by trained personnel. |
|----------------|---|

| Components  | Species | Test Results                     |
|---|---------|----------------------------------|
| PETROLEUM DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5) |         |                                  |
| Acute   |         |                                  |
| Dermal  |         |                                  |
| LD50  | Rabbit  | > 5000 mg/kg                     |
| Inhalation  |         |                                  |
| LD50  | Rat     | 2.18 mg/m <sup>3</sup> , 4 hours |
| Oral  |         |                                  |
| LD50  | Rat     | > 5000 mg/kg                     |
| PETROLEUM DISTILLATES, HYDROTREATED LIGHT (CAS 64742-47-8)            |         |                                  |
| Acute   |         |                                  |
| Dermal  |         |                                  |
| LD50  | Rabbit  | 2000 - 4000 mg/kg                |
| Oral  |         |                                  |
| LD50  | Rat     | > 5000 mg/kg                     |

\* Estimates for product may be based on additional component data not shown.

|  |  |
|--|--|
| Skin corrosion/irritation  | Causes skin irritation. Prolonged skin contact may cause temporary irritation. Defatting, drying and cracking of skin. |
| Serious eye damage/eye irritation                                  | Causes serious eye irritation. Direct contact with eyes may cause temporary irritation.                                |
| Respiratory or skin sensitization                                  |  |
| Respiratory sensitization  | Not a respiratory sensitizer.  |
| Skin sensitization   | This product is not expected to cause skin sensitization.  |
| Germ cell mutagenicity   | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.       |
| Carcinogenicity  | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.  |
| US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) |  |
| Not listed.  |  |
| Reproductive toxicity  | This product is not expected to cause reproductive or developmental effects.   |
| Specific target organ toxicity - single exposure                   | May cause drowsiness and dizziness.  |
| Specific target organ toxicity - repeated exposure                 | Not classified.  |
| Aspiration hazard  | May be harmful if swallowed and enters airways.  |
| Chronic effects  | Prolonged exposure may cause chronic effects.  |
| Further information  | Symptoms may be delayed.   |



## 12. Ecological information

**Ecotoxicity** Contains a substance which causes risk of hazardous effects to the environment.

| Components  | Species | Test Results   |
|---|---------|--|
| PETROLEUM DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5) |         |  |
| <b>Aquatic</b>  |         |  |
| <i>Acute</i>  |         |  |
| Fish  | LC50    | Fish   |
|   |         | > 5000 mg/l, 96 hours                                  |
| PETROLEUM DISTILLATES, HYDROTREATED LIGHT (CAS 64742-47-8)            |         |  |
| <b>Aquatic</b>  |         |  |
| Fish  | LC50    | Rainbow trout,donaldson trout<br>(Oncorhynchus mykiss) |
|   |         | 2.9 mg/l, 96 hours                                     |

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential**

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Consult authorities before disposal. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** 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).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

## 14. Transport information

### DOT

**UN number** UN1268

**UN proper shipping name** Petroleum products, n.o.s. (PETROLEUM DISTILLATES, HYDROTREATED LIGHT)

**Transport hazard class(es)**

**Class** 3

**Subsidiary risk** -

**Label(s)** 3

**Packing group** III

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Special provisions** 144, B1, IB3, T4, TP1, TP29

**Packaging exceptions** 150

**Packaging non bulk** 203

**Packaging bulk** 242

Supplemental Information: This material may be transported as "non regulated" by DOT if all criteria referenced in 49 CFR are met and it is in "non-bulk"packages (119 gallons or less).

### IATA

**UN number** UN1268

**UN proper shipping name** Petroleum products, n.o.s. (PETROLEUM DISTILLATES, HYDROTREATED LIGHT)

**Transport hazard class(es)**

**Class** 3

**Subsidiary risk** -

**Packing group** III

**Environmental hazards** No.

**ERG Code** 3L



**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Other information**

**Passenger and cargo aircraft** Allowed.

**Cargo aircraft only** Allowed.

**IMDG**

**UN number** UN1268

**UN proper shipping name** PETROLEUM PRODUCTS, N.O.S. (PETROLEUM DISTILLATES, HYDROTREATED LIGHT)

**Transport hazard class(es)**

**Class** 3

**Subsidiary risk** -

**Packing group** III

**Environmental hazards**

**Marine pollutant** No.

**EmS** F-E, S-E

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

**DOT**



**IATA; IMDG**



**15. Regulatory information**

**US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. It may be reportable under the provisions of SARA Sections 311 and 312 if specific threshold criteria are met or exceeded.

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

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - Yes

Pressure Hazard - No

Reactivity Hazard - No



**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** Yes**SARA 313 (TRI reporting)**  
Not regulated.**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.**Food and Drug Administration (FDA)** Not regulated.**US state regulations****US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

**US. Massachusetts RTK - Substance List**

Not regulated.

**US. New Jersey Worker and Community Right-to-Know Act**

Not listed.

**US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed.

**US. Rhode Island RTK**

Not regulated.

**California South Coast Air Quality Management District (SCAQMD) Rule 1144 (VOC Emissions)**

This product is subject to SCAQMD Rule 1144; it is not compliant and shall not be sold and used in the SCAQMD. The VOC content of the product is 303 g/L, measured by ASTM Method E-1868-10. This product has a specified VOC limit of 50 g/L.

**US. 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.

**International Inventories**

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

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

**16. Other information, including date of preparation or last revision**

**Issue date** 05-21-2015  
**Version #** 01  
**Further information** Not available.



**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.

**Revision Information**

Product and Company Identification: Product and Company Identification  
Composition / Information on Ingredients: Ingredients  
Physical & Chemical Properties: Multiple Properties  
Transport Information: Proper Shipping Name/Packing Group  
Regulatory Information: United States  
Material Attributes & Uses; Experimental Data: Physical States  
HazReg Data: Pacific Rim  
GHS: Classification