

SAFETY DATA SHEET

1. Identification

| Product identifier | E-3 Zero VOC Degreaser | |
|--|---|--|
| Other means of identification | None. | |
| Recommended use | Degreaser. | |
| Recommended restrictions | None known. | |
| Manufacturer/Importer/Supplier/Distributor information | | |
| Manufacturer/Supplier | TR Industries a Division of Granitize Products Inc. | |
| Address | 11022 Vulcan Street | |
| | South Gate, CA 90280-0893 United States | |
| Telephone: | (562) 923-5438 | |
| Emergency | CHEMTREC: (800) 424-9300 | |
| | CHEMTREC International: 00 1-703-527-3887 | |

2. Hazard(s) identification

| Physical hazards | Not classified. | |
|-----------------------|--|--------------------------|
| Health hazards | Skin corrosion/irritation Serious eye damage/eye irritation | Category 2 Category 1 |
| Environmental hazards | Hazardous to the aquatic environment, long-term hazard | Category 3 |
| OSHA defined hazards | Not classified. | |
| Label elements | | |



| Signal word | Danger |
|--|---|
| Hazard statement | Causes skin irritation. Causes serious eye damage. Harmful to aquatic life with long lasting effects. |
| Precautionary statement | |
| Prevention | Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. |
| Response | If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. |
| Storage | Store away from incompatible materials. |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Hazard(s) not otherwise classified (HNOC) | None known. |
| Supplemental information | None. |
| | |

3. Composition/information on ingredients

Mixtures

| Chemical name | CAS number | % | |
|---|------------|---------|--|
| Water | 7732-18-5 | 80 - 85 | |
| Tetrasodium ethylene diamine tetraacetate | 64-02-8 | 5 - 10 | |

| C9-11 Alcohol ethoxylate | | Not assigned | 1 - 10 |
|---|--|--------------------------------|------------------------|
| Alkyl glycol | | Not assigned | 1 - 5 |
| Disodium metasilicate | | 6834-92-0 | 1 - 5 |
| Quaternary Ammonium Compounds, Coco Alkylbis(hydroxyethyl)methyl, Ethoxylated, Chlorides | | 61791-10-4 | 1 - 5 |
| composition comments | All concentrations are in percent by weight ur percent by volume. | nless ingredient is a gas. Gas | concentrations are in |
| I. First-aid measures | | | |
| nhalation | Move to fresh air. If breathing is difficult, give | oxygen. Get medical attentio | n, if needed. |
| kin contact | Wash with plenty of water. If skin irritation occ | curs: Get medical advice/atte | ntion. |
| ye contact | Immediately flush eyes with plenty of water for present and easy to do. Continue rinsing. Ge | | |
| ngestion | Rinse mouth thoroughly. Do not induce vomit stomach content does not get into the lungs. unconscious or is having convulsions. Get mo | Never give anything by mouth | |
| lost important ymptoms/effects, acute and elayed | Causes skin irritation. May cause redness an include stinging, tearing, redness, swelling, a blindness could result. | | |
| ndication of immediate nedical attention and special reatment needed | Keep victim warm. Keep victim under observa | ation. Treat symptomatically. | |
| Seneral information | Take off contaminated clothing and shoes im of the material(s) involved, and take precaution sheet to the doctor in attendance. Wash control wash co | ons to protect themselves. Sh | low this safety data |
| 5. Fire-fighting measures | | | |
| uitable extinguishing media | Water. Foam. Dry powder. Carbon dioxide (C | CO2). | |
| Insuitable extinguishing nedia | No restrictions known. | | |
| pecific hazards arising from he chemical | During fire, gases hazardous to health may b | e formed. | |
| pecial protective equipment nd precautions for firefighters | Wear full protective clothing, including helme demand breathing apparatus, protective cloth | | sure or pressure |
| ire fighting quipment/instructions | Use water spray to cool unopened containers until well after fire is out. Prevent runoff from or drinking water supply. | | |
| eneral fire hazards | No unusual fire or explosion hazards noted. | | |
| 6. Accidental release meas | sures | | |
| Personal precautions, rotective equipment and mergency procedures | Keep unnecessary personnel away. Do not g advised if significant spillages cannot be cont adequate ventilation. Avoid any exposure. Us the SDS. | ained. Stay upwind. Keep ou | t of low areas. Ensure |
| lethods and materials for ontainment and cleaning up | Should not be released into the environment. Prevent entry into waterways, sewers, basem | | nis is without risk. |
| | Large Spills: Dike far ahead of liquid spill for l vermiculite, sand or earth to soak up the proc | | |
| | Small Spills: Absorb spill with vermiculite or or thoroughly. After removal flush contaminated | | taminated surface |
| | Never return spills to original containers for re | | |
| | Never return spins to original containers for re | | |

7. Handling and storage

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|---|---|--|--|
| Precautions for safe handling | Wear personal protective equipment. Avoid breathing mist or vapor. Do not get in eyes. Avoid contact with skin. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling. When using, do not eat, drink or smoke. Avoid release to the environment. | | |
| Conditions for safe storage, including any incompatibilities Keep containers tightly closed. Keep away from food, drink and animal feedingstuffs. Keep the reach of children. | | | |
| 8. Exposure controls/personal protection | | | |
| Occupational exposure limits | No exposure limits noted for ingredient(s). | | |
| Biological limit values | No biological exposure limits noted for the ingredient(s). | | |
| Appropriate engineering controls | 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 | | |

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. An eye wash and safety shower must be available in the immediate work area.

Individual protection measures, such as personal protective equipment Eye/face protection Wear safety glasses with side shields (or goggles). Wear face shield if there is risk of splashes. Skin protection Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is Hand protection advisable. Suitable gloves can be recommended by the glove supplier. Wear appropriate chemical resistant clothing to prevent any possibility of skin contact. Other If engineering controls do not maintain airborne concentrations below recommended exposure **Respiratory protection** limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear appropriate thermal protective clothing, when necessary. **Thermal hazards** When using, do not eat, drink or smoke. Wash hands before breaks and immediately after **General hygiene** handling the product. Contaminated work clothing should not be allowed out of the workplace. considerations Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

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|--|-------------------------|
| Appearance | Green liquid. |
| Physical state | Liquid. |
| Form | Liquid. |
| Color | Green. |
| Odor | Characteristic. |
| Odor threshold | Not available. |
| рН | Not available. |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | > 212 °F (> 100 °C) |
| Flash point | > 212.0 °F (> 100.0 °C) |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or exp | losive limits |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | |
| Solubility (water) | Soluble in water. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |

Viscosity

Not available.

10. Stability and reactivity

| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
|---------------------------------------|---|
| Chemical stability | Stable at normal conditions. |
| Possibility of hazardous reactions | Hazardous polymerization does not occur. |
| Conditions to avoid | Elevated temperatures. Contact with incompatible materials. |
| Incompatible materials | Strong oxidizing agents. Strong acids. Strong bases. |
| Hazardous decomposition products | No hazardous decomposition products are known. |

11. Toxicological information

Information on likely routes of exposure

| Inhalation | Vapors and mist may irritate threat and respiratory system and sause coughing |
|--|--|
| | Vapors and mist may irritate throat and respiratory system and cause coughing. |
| Skin contact | Causes skin irritation. |
| Eye contact | Causes serious eye damage. |
| Ingestion | Ingestion may cause irritation and malaise. |
| Symptoms related to the physical, chemical and toxicological characteristics | Causes skin irritation. May cause redness and pain. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. |
| Information on toxicological effe | ects |
| Acute toxicity | Not expected to be acutely toxic. |
| Skin corrosion/irritation | Causes skin irritation. |
| Serious eye damage/eye irritation | Causes serious eye damage. |
| Respiratory or skin sensitization | |
| Respiratory sensitization | Not classified. |
| Skin sensitization | Not a skin sensitizer. |
| Germ cell mutagenicity | Not classified. |
| Carcinogenicity | Not listed by ACGIH, IARC, NIOSH, NTP or OSHA. |
| IARC Monographs. Overall E | Evaluation of Carcinogenicity |
| Not listed. | |
| NTP Report on Carcinogens | |
| Not listed. | |
| | d Substances (29 CFR 1910.1001-1050) |
| Not listed. | Not classified. |
| Reproductive toxicity | |
| Specific target organ toxicity - single exposure | Not classified. |
| Specific target organ toxicity - repeated exposure | Not classified. |
| Aspiration hazard | Not classified. |
| Chronic effects | Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis. |
| Further information | Symptoms may be delayed. |
| 12 Ecological information | |

12. Ecological information

| Ecotoxicity | Harmful to aquatic life with long lasting effects. |
|-------------------------------|---|
| Persistence and degradability | None known. |
| Bioaccumulative potential | Not available. |
| Mobility in soil | This product is water soluble and may disperse in soil. |
| 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 | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. |
|--|--|
| 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. |
| Contaminated packaging | Since emptied containers may retain product residue, follow label warnings even after container is emptied. |

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

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

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

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 Not regulated.

(SDWA)

US state regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US. 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.

US. California Proposition 65

Not Listed.

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | 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). 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 | 02-June-2014 |
|---------------|---|
| Revision date | 24-September-2015 |
| Version # | 02 |
| NFPA ratings | |
| References | HSDB® - Hazardous Substances Data Bank C&L Inventory database. Registry of Toxic Effects of Chemical Substances (RTECS) ACGIH EPA: Acquire database NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents |
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