

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 6/24/2023 Version: 1.1

| 4.4. Islandification | |
|--|---|
| 1.1. Identification | |
| Product name | : Tsunami DQ Diquat |
| 1.2. Recommended use and restrictions o | on use |
| Use of the substance/mixture | : Herbicide |
| 1.3. Supplier | |
| Sanco Industries, Inc. 1819 S. Calhoun Street Fort Wayne, IN 46802 Phone: 260-426-6281 Toll Free: 888-697-2626 | |
| 1.4. Emergency telephone number | |
| Emergency number | : 24 Hour Contact - CHEMTREC 1-800-424-9300 |
| SECTION 2: Hazard(s) identification | |
| 2.1. Classification of the substance or mix | xture |
| GHS US classification | |
| Acute toxicity (oral) Category 4 Acute toxicity (dermal) Category 3 Acute toxicity (inhalation:dust,mist) Category 2 Full text of H statements : see section 16 | H302Harmful if swallowedH311Toxic in contact with skinH330Fatal if inhaled |
| 2.2. GHS Label elements, including preca | autionary statements |
| GHS US labeling | |
| Hazard pictograms (GHS US) | |
| Signal word (GHS US) Hazard statements (GHS US) | : Danger : H302 - Harmful if swallowed H311 - Toxic in contact with skin H330 - Fatal if inhaled |
| Precautionary statements (GHS US) | P260 - Do not breathe mist/vapors/spray. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P284 - [In case of inadequate ventilation] wear respiratory protection. P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell. P302+P352 - If on skin: Wash with plenty of water. P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. |

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P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|------------------|--------------------|---|---|
| Diquat dibromide | CAS-No.: 85-00-7 | | Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation:dust,mist), H330 |

Full text of hazard classes and H-statements : see section 16

| SECTION 4: First-aid measures | |
|---|--|
| 4.1. Description of first aid measures | |
| First-aid measures general | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a physician immediately. |
| First-aid measures after inhalation | Remove person to fresh air and keep comfortable for breathing. Allow the victim to rest. Immediately call a poison center or doctor/physician. Specific treatment is urgent (see supplemental first aid instruction on this label). Call a physician immediately. |
| First-aid measures after skin contact | Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Immediately call a poison center or doctor/physician. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. |
| First-aid measures after eye contact | : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or doctor/physician if you feel unwell. |
| 4.2. Most important symptoms and effec | ts (acute and delayed) |
| Potential Adverse human health effects and symptoms | : Harmful if swallowed. Toxic in contact with skin. Fatal if inhaled. |
| Symptoms/effects after inhalation | : Fatal if inhaled. |
| Symptoms/effects after skin contact | : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin. |
| Symptoms/effects after ingestion | : Swallowing a small quantity of this material will result in serious health hazard. |

Treat symptomatically.

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| SECTION 5: Fire-fighting measures | | |
|--|--|--|
| 5.1. Suitable (and unsuitable) extinguishing | media | |
| Suitable extinguishing media Unsuitable extinguishing media | Foam. Dry powder. Carbon dioxide. Water spray. Sand.Do not use a heavy water stream. | |
| 5.2. Specific hazards arising from the chem | ical | |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. | |
| 5.3. Special protective equipment and preca | autions for fire-fighters | |
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. | |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. | |

| SECTION 6: Accidental release measures | | |
|--|--|--|
| 6.1. Personal precautions, protective equipm | ent and emergency procedures | |
| 6.1.1. For non-emergency personnel | | |
| Emergency procedures : | Evacuate unnecessary personnel. Do not breathe dust/fume/gas/mist/vapors/spray. Only qualified personnel equipped with suitable protective equipment may intervene. | |
| 6.1.2. For emergency responders | | |
| Protective equipment : | Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection". | |
| Emergency procedures : | Ventilate area. | |

| 6.2. | Environment | tal precautions |
|------|-------------|-----------------|
| | | |

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

| 6.3. Methods and material for containment and cleaning up | |
|---|---|
| Methods for cleaning up | : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. |
| Other information | : Dispose of materials or solid residues at an authorized site. |
| 6.4. Reference to other sections | |

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

| SECTION 7: Handling and storage | | |
|------------------------------------|---|--|
| 7.1. Precautions for safe handling | | |
| Precautions for safe handling | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist/vapors/spray. Use only outdoors or in a well-ventilated area. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. | |
| Hygiene measures | Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse. Always wash hands after handling the product. | |

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| 7.2. Conditions for safe storage, including a | ny incompatibilities | |
|---|--|--|
| Storage conditions | : Keep only in the original container in a cool, well ventilated place. Keep container tightly closed. Store locked up. | |
| Incompatible products Incompatible materials | Strong bases. Strong acids. Sources of ignition. Direct sunlight. | |
| SECTION 8: Exposure controls/persona | al protection | |
| 8.1. Control parameters | | |
| Tsunami DQ Diquat | | |
| No additional information available | | |
| Diquat dibromide (85-00-7) | | |
| USA - ACGIH - Occupational Exposure Limits | | |
| ACGIH OEL TWA | 0.5 mg/m³ (inhalable particulate matter (Diquat) 0.1 mg/m³ (respirable particulate matter (Diquat) | |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route | |
| USA - NIOSH - Occupational Exposure Limits | | |
| NIOSH REL TWA | 0.5 mg/m³ | |
| 8.2. Appropriate engineering controls | | |
| Appropriate engineering controls Environmental exposure controls | Ensure good ventilation of the work station. Avoid release to the environment. | |
| · | | |
| 8.3. Individual protection measures/Persona | al protective equipment | |
| Personal protective equipment: Avoid all unnecessary exposure. | | |
| Hand protection: | | |
| Wear protective gloves. | | |
| Eye protection: | | |
| Chemical goggles or safety glasses. | | |
| Skin and body protection: | | |
| Wear suitable protective clothing | | |
| Respiratory protection: | | |
| [In case of inadequate ventilation] wear respiratory pr | otection. | |
| Other information: Do not eat, drink or smoke during use. | | |
| SECTION 9: Physical and chemical pro | perties | |
| 9.1. Information on basic physical and chem | nical properties | |
| Physical state | : Liquid | |
| Color Odor | : Dark brown : Odorless | |
| Odor threshold | : No data available | |

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| • | |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : Non flammable. |
| Vapor pressure | : No data available |
| Relative vapor density at 20°C | : No data available |
| Relative density | : 1.2 |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| | |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Aluminum. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

| 11.1. Information on toxicological effects | | |
|--|---|--|
| Acute toxicity (dermal) : | Harmful if swallowed. Toxic in contact with skin. Fatal if inhaled. | |
| Tsunami DQ Diquat | | |
| ATE US (oral) | 573.727 mg/kg body weight | |
| ATE US (dermal) | 697.051 mg/kg body weight | |

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| Tsunami DQ Diquat | |
|--|---|
| ATE US (dust, mist) | 0.324 mg/l/4h |
| Diquat dibromide (85-00-7) | |
| LD50 oral rat | 432 mg/kg |
| LD50 dermal rabbit | 260 mg/kg |
| LC50 Inhalation - Rat | 0.121 mg/l/4h |
| ATE US (oral) | 214 mg/kg body weight |
| ATE US (dermal) | 260 mg/kg body weight |
| ATE US (vapors) | 0.121 mg/l/4h |
| ATE US (dust, mist) | 0.121 mg/l/4h |
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| Viscosity, kinematic | : No data available |
| Potential Adverse human health effects and symptoms | : Harmful if swallowed. Toxic in contact with skin. Fatal if inhaled. |
| Symptoms/effects after inhalation | : Fatal if inhaled. |
| Symptoms/effects after skin contact | : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin. |
| Symptoms/effects after ingestion | : Swallowing a small quantity of this material will result in serious health hazard. |

| 12.1. Toxicity | |
|-------------------------------------|--|
| Ecology - general : | The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. |
| Diquat dibromide (85-00-7) | |
| LC50 - Fish [1] | > 100 mg/l 96h |
| EC50 - Other aquatic organisms [2] | 1 – 10 mg/l 48h |
| ErC50 algae | < 1 mg/l 72h |
| 12.2. Persistence and degradability | |
| Tsunami DQ Diquat | |
| Persistence and degradability | Not established. |
| 12.3. Bioaccumulative potential | |
| Tsunami DQ Diquat | |
| Bioaccumulative potential | Not established. |

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| 12.4. Mobility in soil | |
|--|---|
| No additional information available | |
| 12.5. Other adverse effects | |
| Other information | : Avoid release to the environment. |
| SECTION 13: Disposal considerations | s |
| 13.1. Disposal methods | |
| Waste treatment methods Product/Packaging disposal recommendations Ecology - waste materials | Dispose of contents/container in accordance with licensed collector's sorting instructions. Dispose in a safe manner in accordance with local, state, and federal regulations. Hazardous waste due to toxicity. Avoid release to the environment. |
| SECTION 14: Transport information | |
| 14.1. UN number | |
| DOT NA No UN-No. (IMDG) UN-No. (IATA) | : UN1760 : No information available : No information available |
| 14.2. UN proper shipping name | |
| Proper Shipping Name (DOT) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) | Corrosive liquids, n.o.s. ((Diquat dibromide)) No information available No information available |
| 14.3. Transport hazard class(es) | |
| DOT Transport hazard class(es) (DOT) Hazard labels (DOT) | : 8 : 8 |
| IMDG Transport hazard class(es) (IMDG) | : No information available |
| IATA Transport hazard class(es) (IATA) | : No information available |
| 14.4. Packing group | |
| Packing group (DOT) Packing group (IMDG) Packing group (IATA) | III No information available No information available |
| 14.5. Environmental hazards | |
| Other information | : No supplementary information available. |
| 14.6. Special precautions for user | |
| DOT UN-No.(DOT) | : UN1760 |

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| DOT Special Provisions (49 CFR 172.102) | (31HZ1 and 31HA2, 31HB2, 31HN2, 3 with a vapor pressure less than or equal C (1.3 bar at 131 F) are authorized, explicitly 2 for UN2672). T7 - 4 178.274(d)(2) Normal | and 31N); Rigid plastics (31H1 and 31H2); Composite 1HD2 and 31HH2). Additional Requirement: Only liquids al to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 cept for UN2672 (also see Special Provision IP8 in Table 78.275(d)(3) fust not exceed the degree of filling determined by the (tr - tf) Where: tr is the maximum mean bulk temperature ure in degrees celsius of the liquid during filling. uum test pressure of 2.65 bar (265 kPa) may be used s 2.65 bar or less based on the MAWP of the hazardous subchapter, where the test pressure is 1.5 times the |
|---|--|---|
| | MAWP. | |
| DOT Packaging Exceptions (49 CFR 173.xxx) | : 154 | |
| DOT Packaging Non Bulk (49 CFR 173.xxx) | : 203 | |
| DOT Packaging Bulk (49 CFR 173.xxx) | : 241 | |
| DOT Quantity Limitations Passenger aircraft/rail (49 | : 5L | |
| CFR 173.27) | | |
| DOT Quantity Limitations Cargo aircraft only (49 | : 60 L | |
| CFR 175.75) | | |
| DOT Vessel Stowage Location | : A - The material may be stowed "on de | eck" or "under deck" on a cargo vessel and on a |
| | passenger vessel. | |
| DOT Vessel Stowage Other | : 40 - Stow "clear of living quarters" | |
| IMDG No data available IATA No data available | | |
| 14.7. Transport in bulk according to Annex | I of MARPOL 73/78 and the IBC Co | de |
| Not applicable | | |
| SECTION 15: Regulatory information | | |
| 15.1. US Federal regulations | | |
| Tsunami DQ Diquat | | |
| SARA Section 311/312 Hazard Classes | AcuteToxicity | |
| All components of this product are present and listed (TSCA) inventory, except for: | as Active on the United States Environme | ntal Protection Agency Toxic Substances Control Act |
| Diquat dibromide | CAS-No. 85-00-7 | 37.3% |
| FIFRA Labelling | | |
| EPA Registration Number | 83190-3-72838 | |
| This chemical is a pesticide product registered by the pesticide law. These requirements differ from the class of non-pesticide chemicals. Following is the hazard in | sification criteria and hazard information r | equired for safety data sheets, and for workplace labels |
| FIFRA Signal Word | Caution | |
| FIFRA Precautionary Statement | Keep out of reach of children. | |
| This product or mixture is not known to contain a toxic CFR §372.38(a) subject to the reporting requirements CFR Part 372. | | pplicable de minimis concentration as specified in 40 d Amendments and Reauthorization Act of 1986 and 40 |

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| Diquat dibromide (85-00-7) | |
|---------------------------------|-----------------------------|
| CERCLA RQ | 1000 lb listed under Diquat |
| 15.2. International regulations | |

CANADA

Diquat dibromide (85-00-7)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Diquat dibromide (85-00-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Diquat dibromide (85-00-7)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Japanese Poisonous and Deleterious Substances Control Law

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

| Component | State or local regulations |
|---------------------------|---|
| Diquat dibromide(85-00-7) | U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List |

SECTION 16: .

| according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations | | |
|--|-------------|--|
| Revision date | : 6/24/2023 | |
| Other information | : None. | |

| Full text of H-phrases | |
|------------------------|----------------------------|
| H301 | Toxic if swallowed |
| H302 | Harmful if swallowed |
| H311 | Toxic in contact with skin |
| H330 | Fatal if inhaled |

Safety Data Sheet (SDS), USA

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