

## SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

# **CORTIS MS 220**

**SDS #**: 090703

## Section 1. Identification

| GHS product identifier | : CORTIS MS 220 |
|------------------------|-----------------|
|------------------------|-----------------|

#### Relevant identified uses of the substance or mixture and uses advised against

| Identified uses    |                                     |  |
|--------------------|-------------------------------------|--|
| Circulating oil    |                                     |  |
| Supplier's details | : TotalEnergies Marketing USA. Inc. |  |

#### Supplier's details : TotalEnergies Marketing USA, Inc. 1201 Louisiana St. Suite 1800 Houston, TX 77002 Phone: 713-483-5000 ProductSafety@totalenergies.com

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| Emergency telephone   |
|-----------------------|
| number (with hours of |
| operation)            |

1-866-928-0789 (For Emergencies, call CARECHEM 24/7 Domestic) 1-215-207-0061 (For Emergencies, call CARECHEM 24/7 International)

## Section 2. Hazards identification

| OSHA/HCS status                            | : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
|--|---|
| Classification of the substance or mixture | : Not classified.   |
| GHS label elements                         |   |
| Signal word                                | : No signal word.   |
| Hazard statements                          | : No known significant effects or critical hazards.   |
| Precautionary statements                   |   |
| Prevention                                 | : Not applicable.   |
| Response                                   | : Not applicable.   |
| Storage                                    | : Not applicable.   |
| Disposal                                   | : Not applicable.   |
| Supplemental label elements                | : Avoid contact with skin and clothing. Wash thoroughly after handling.                               |
| Hazards not otherwise<br>classified        | : Prolonged or repeated contact may dry skin and cause irritation.                                    |

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## Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

| Ingredient name                                    | % (w/w)   | CAS number |
|--|-----------|------------|
| Paraffin oils (petroleum), catalytic dewaxed heavy | ≥25 - ≤50 | 64742-70-7 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Additional : Mineral oil of petroleum origin Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

# Description of necessary first aid measures Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention. Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Skin contact : Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

| Potential acute health effe | <u>icts</u>   |
|-----------------------------|---|
| Eye contact                 | : No known significant effects or critical hazards.   |
| Inhalation                  | : No known significant effects or critical hazards.   |
| Skin contact                | : Defatting to the skin. May cause skin dryness and irritation.   |
| Ingestion                   | : No known significant effects or critical hazards.   |
| Over-exposure signs/sym     | <u>ptoms</u>  |
| Eye contact                 | : No specific data.   |
| Inhalation                  | : No specific data.   |
| Skin contact                | : Adverse symptoms may include the following:<br>irritation<br>dryness<br>cracking  |
| Ingestion                   | : No specific data.   |
| Indication of immediate me  | dical attention and special treatment needed, if necessary  |
| Notes to physician          | <ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large<br/>quantities have been ingested or inhaled.</li> </ul> |
| Specific treatments         | : No specific treatment.  |
| Protection of first-aiders  | : No action shall be taken involving any personal risk or without suitable training.  |

#### See toxicological information (Section 11)

| Date of revision | : 2022/05/16 | 1 | USA | ENGLISH | 2/12 |
|------------------|--------------|---|-----|---------|------|



# Section 5. Fire-fighting measures

| : Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.  |
|---|
| : Do not use water jet.   |
| : In a fire or if heated, a pressure increase will occur and the container may burst.   |
| : carbon monoxide<br>carbon dioxide<br>nitrogen oxides<br>sulfur oxides<br>phosphorus oxides<br>Mercaptans<br>Hydrogen sulfide  |
| : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.                         |
|   |

## Section 6. Accidental release measures

| Personal precautions, protect  | tive equipment and emergency procedures  |
|--------------------------------|--|
| For non-emergency<br>personnel | : No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilled material. Put on appropriate personal<br>protective equipment.   |
| For emergency responders       | : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".  |
| Environmental precautions      | : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).  |
| Methods and materials for co   | ntainment and cleaning up  |
| Small spill                    | : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.  |
| Large spill                    | : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |



# Section 7. Handling and storage

Precautions for safe handling

| Protective measures  | : | Put on appropriate personal protective equipment (see Section 8).  |
|--|---|--|
| Advice on general occupational hygiene                             | : | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.  |
| Conditions for safe storage,<br>including any<br>incompatibilities | : | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |

## Section 8. Exposure controls/personal protection

#### Control parameters

#### **Occupational exposure limits**

| Ingredient name                    |   | Exposure limits  |
|------------------------------------|---|--|
| Paraffin oils (petroleum), ca      | atalytic dewaxed heavy  | ACGIH TLV (United States, 1/2021).<br>TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable<br>fraction<br>NIOSH REL (United States, 10/2020).<br>TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist<br>STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist<br>OSHA PEL (United States, 5/2018).<br>TWA: 5 mg/m <sup>3</sup> 8 hours. |
| Advisory OEL                       | : Mineral oil mist: USA: OSHA (F<br>10 mg/m3, ACGIH (TLV) TWA       | PEL) TWA 5 mg/m3, NIOSH (REL) TWA 5 mg/m3, STEL<br>5 mg/m3 (highly refined)  |
| Appropriate engineering controls   | : Good general ventilation should contaminants.                     | d be sufficient to control worker exposure to airborne   |
| Environmental exposure<br>controls | they comply with the requireme                                      | vork process equipment should be checked to ensure<br>ents of environmental protection legislation. In some<br>or engineering modifications to the process equipment<br>issions to acceptable levels.  |
| Individual protection measure      | ures  |  |
| Hygiene measures                   | eating, smoking and using the l<br>Appropriate techniques should    | te thoroughly after handling chemical products, before<br>lavatory and at the end of the working period.<br>be used to remove potentially contaminated clothing.<br>efore reusing. Ensure that eyewash stations and safety<br>station location.  |
| Eye/face protection                | assessment indicates this is ne<br>gases or dusts. If contact is po | an approved standard should be used when a risk<br>ecessary to avoid exposure to liquid splashes, mists,<br>ossible, the following protection should be worn, unless<br>her degree of protection: safety glasses with side-  |
| Skin protection                    |   |  |
| Date of revision : 2022/05/16      | 1   | USA ENGLISH 4/1.   |



| Hand protection        | <ul> <li>Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.</li> <li>Hydrocarbon-proof gloves</li> <li>Fluorinated rubber</li> <li>nitrile rubber</li> <li>Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.</li> </ul> |
|------------------------|---|
| Body protection        | <ul> <li>Personal protective equipment for the body should be selected based on the task being<br/>performed and the risks involved and should be approved by a specialist before<br/>handling this product.</li> </ul>   |
| Other skin protection  | <ul> <li>Appropriate footwear and any additional skin protection measures should be selected<br/>based on the task being performed and the risks involved and should be approved by a<br/>specialist before handling this product.</li> </ul>   |
| Respiratory protection | : None under normal use conditions  |

# Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature ( $20^{\circ}C / 68^{\circ}F$ ) and pressure (1013 hPa) unless otherwise indicated

| <u>Appearance</u>                            |  |
|--|--|
| Physical state                               | : Liquid. [limpid]   |
| Color  | : Not available.   |
| Odor   | : Characteristic.  |
| Odor threshold                               | : Not available.   |
| рН   | Not available.   |
| Melting point/freezing point                 | : Not available.   |
| Boiling point                                | : Not available.   |
| Flash point                                  | : Open cup: 266°C (510.8°F) [ASTM D 92]                                    |
| Evaporation rate                             | : Not available.   |
| Flammability (solid, gas)                    | : Not available.   |
| Lower and upper explosive (flammable) limits | : Not available.   |
| Vapor pressure                               | : Not available.   |
| Vapor density                                | Not available.   |
| Relative density                             | : 0.889 [ASTM D 1298]  |
| Density                                      | : 0.889 g/cm³ [15°C]   |
| Solubility                                   | : Insoluble in the following materials: cold water and hot water.          |
| Miscible with water                          | : No.  |
| Partition coefficient: n-                    | : Not applicable.  |
| octanol/water                                |  |
| Auto-ignition temperature                    | : Not available.   |
| Decomposition temperature                    | : Not available.   |
| Viscosity                                    | : Kinematic (40°C (104°F)): 209 to 231 mm²/s (209 to 231 cSt) [ASTM D 445] |
| Flow time (ISO 2431)                         | : Not available.   |
| Particle characteristics                     |  |
| Median particle size                         | : Not applicable.  |
|  |  |



# Section 10. Stability and reactivity

| Reactivity                          | : No specific test data related to reactivity available for this product or its ingredients.                                   |
|-------------------------------------|--|
| Chemical stability                  | : Stable under recommended storage and handling conditions (see Section 7).  |
| Possibility of hazardous reactions  | : Under normal conditions of storage and use, hazardous reactions will not occur.  |
| Conditions to avoid                 | : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                               |
| Incompatible materials              | : Strong oxidizing agents  |
| Hazardous decomposition<br>products | : carbon monoxide<br>carbon dioxide<br>nitrogen oxides<br>sulfur oxides<br>phosphorus oxides<br>Mercaptans<br>Hydrogen sulfide |

# Section 11. Toxicological information

#### Information on toxicological effects

| Product/substance                                   | Result                          | Species | Dose        | Exposure | Test |
|---|---------------------------------|---------|-------------|----------|------|
| araffin oils (petroleum),<br>atalytic dewaxed heavy | LC50 Inhalation Dusts and mists | Rat     | 5.1 mg/l    | 4 hours  | -    |
|   | LC50 Inhalation Vapor           | Rat     | 80.4 mg/l   | 1 hours  | -    |
|   | LC50 Inhalation Vapor           | Rat     | 20.1 mg/l   | 4 hours  | -    |
|   | LD50 Dermal                     | Rabbit  | >5000 mg/kg | -        | -    |
|   | LD50 Oral                       | Rat     | >5000 mg/kg | -        | -    |

| Irritation/Corrosion   |   |
|------------------------|---|
| Skin                   | : Based on available data, the classification criteria are not met. |
| Eyes                   | : Based on available data, the classification criteria are not met. |
| Respiratory            | : Based on available data, the classification criteria are not met. |
| Sensitization          |   |
| Skin                   | : Based on available data, the classification criteria are not met. |
| Respiratory            | : Based on available data, the classification criteria are not met. |
| <b>Mutagenicity</b>    |   |
| Conclusion/Summary     | : Based on available data, the classification criteria are not met. |
| <b>Carcinogenicity</b> |   |
| Conclusion/Summary     | : Based on available data, the classification criteria are not met. |
| Reproductive toxicity  |   |
| Conclusion/Summary     | : Based on available data, the classification criteria are not met. |
| <b>Teratogenicity</b>  |   |
|                        |   |



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**Conclusion/Summary** : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

| Name   | Result                         |  |
|--|--------------------------------|--|
| Paraffin oils (petroleum), catalytic dewaxed heavy | ASPIRATION HAZARD - Category 1 |  |

| nformation on the likely<br>outes of exposure | 1                      | Not available.   |
|---|------------------------|--|
| Potential acute health effects                | 5                      |  |
| Eye contact                                   | 1                      | No known significant effects or critical hazards.  |
| Inhalation                                    | 1                      | No known significant effects or critical hazards.  |
| Skin contact                                  | 1                      | Defatting to the skin. May cause skin dryness and irritation.  |
| Ingestion                                     | . :                    | No known significant effects or critical hazards.  |
|   |                        |  |
| Symptoms related to the phy                   | <u>/sic</u>            | cal, chemical and toxicological characteristics  |
| Symptoms related to the phy<br>Eye contact    | <mark>/sic</mark><br>: | cal, chemical and toxicological characteristics<br>No specific data.                                   |
| Symptoms related to the phy                   | <u>/sic</u><br>:<br>:  | <mark>cal, chemical and toxicological characteristics</mark><br>No specific data.<br>No specific data. |
| Symptoms related to the phy<br>Eye contact    | <u>/sic</u><br>:<br>:  | cal, chemical and toxicological characteristics<br>No specific data.                                   |

#### Delayed and immediate effects and also chronic effects from short and long term exposure

| <u>Short term exposure</u>     |  |
|--------------------------------|--|
| Potential immediate<br>effects | : Not available.   |
| Potential delayed effects      | : Not available.   |
| Long term exposure             |  |
| Potential immediate<br>effects | : Not available.   |
| Potential delayed effects      | : Not available.   |
| Potential chronic health eff   | ects   |
| Not available.                 |  |
| General                        | : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. |
| Carcinogenicity                | : No known significant effects or critical hazards.  |
| Mutagenicity                   | : No known significant effects or critical hazards.  |
| Reproductive toxicity          | : No known significant effects or critical hazards.  |

#### Numerical measures of toxicity Acute toxicity estimates



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| Product/substance                                  |     | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | (vapors) | Inhalation<br>(dusts and<br>mists) (mg/<br>I) |
|--|-----|-------------------|--------------------------------|----------|---|
| Paraffin oils (petroleum), catalytic dewaxed heavy | N/A | N/A               | N/A                            | 20.1     | 5.1   |

# Section 12. Ecological information

| Product/substance                                  | Result                | Species                                       | Exposure | Test |
|--|-----------------------|---|----------|------|
| Paraffin oils (petroleum), catalytic dewaxed heavy | Acute EC50 10000 mg/l | Daphnia                                       | 48 hours | -    |
|  | Acute NOEL 101 mg/l   | Algae -<br>Pseudokirchneriella<br>subcapitata | 72 hours | -    |

#### Persistence and degradability

| Product/substance                                  | Aquatic half-life | Photolysis | Biodegradability |
|--|-------------------|------------|------------------|
| Paraffin oils (petroleum), catalytic dewaxed heavy | -                 | -          | Not readily      |

#### **Bioaccumulative potential**

Not available.

| <u>Mobility in soil</u>                   |  |
|---|--|
| Soil/water partition<br>coefficient (Koc) | : Not available.   |
| Mobility in soil                          | : Given its physical and chemical characteristics, the product generally shows low soil mobility The product is insoluble and floats on water Loss by evaporation is limited |
| Other adverse effects                     | : No known significant effects or critical hazards.  |

### Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.



# Section 14. Transport information

|                               | DOT Classification | IMDG           | ICAO/IATA      |
|-------------------------------|--------------------|----------------|----------------|
| UN/ID No                      | Not regulated.     | Not regulated. | Not regulated. |
| UN proper<br>shipping name    | -                  | -              | -              |
| Transport<br>hazard class(es) | -                  | -              | -              |
| Packing group                 | -                  | -              | -              |
| Environmental<br>hazards      | No.                | No.            | No.            |

#### Additional information

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

# Section 15. Regulatory information

| U.S. Federal regulations  | <ul> <li>TSCA 8(a) PAIR: naphthalene; diphenylamine</li> <li>TSCA 8(a) CDR Exempt/Partial exemption: Not determined</li> <li>Clean Water Act (CWA) 307: toluene; naphthalene</li> <li>Clean Water Act (CWA) 211: toluene; naphthalene</li> </ul> |     |         |      |
|---|--|-----|---------|------|
|   | Clean Water Act (CWA) 311: toluene; naphthalene  |     |         |      |
| Clean Air Act Section 112<br>(b) Hazardous Air<br>Pollutants (HAPs) | : Listed   |     |         |      |
| Clean Air Act Section 602<br>Class I Substances                     | : Not listed   |     |         |      |
| Clean Air Act Section 602<br>Class II Substances                    | : Not listed   |     |         |      |
| DEA List I Chemicals<br>(Precursor Chemicals)                       | : Not listed   |     |         |      |
| DEA List II Chemicals<br>(Essential Chemicals)                      | : Not listed   |     |         |      |
| <u>SARA 302/304</u>   |  |     |         |      |
| Composition/information   | <u>on ingredients</u>  |     |         |      |
| No products were found.   |  |     |         |      |
| SARA 304 RQ<br><u>SARA 311/312</u>                                  | : Not applicable.  |     |         |      |
| Classification  | : HNOC - Defatting irritant  |     |         |      |
| Date of revision : 2022/05/16                                       | 1  | USA | ENGLISH | 9/12 |



#### **Composition/information on ingredients**

| Name   | %         | Classification                 |
|--|-----------|--------------------------------|
| Paraffin oils (petroleum), catalytic dewaxed heavy | ≥25 - ≤50 | ASPIRATION HAZARD - Category 1 |

#### **State regulations**

| Massachusetts       | : The following components are listed: OIL MIST, MINERAL; MINERAL OIL,<br>PETROLEUM PARAFFIN OILS, CATALYTIC DEWAXED HEAVY |
|---------------------|--|
| New York            | : None of the components are listed.   |
| New Jersey          | : None of the components are listed.   |
| Pennsylvania        | : None of the components are listed.   |
| California Prop. 65 |  |

WARNING: This product can expose you to chemicals including Naphthalene, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

#### International regulations

<u>Chemical Weapon Convention List Schedules I, II & III Chemicals</u> Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

| Inv | entory | <u>/ list</u> |
|-----|--------|---------------|
|     |        |               |

| Australia inventory (AIIC)                  | : All components are listed or exempted.   |
|---|--|
| Canada inventory (DSL/NDSL)                 | : All components are listed or exempted.   |
| China inventory (IECSC)                     | : All components are listed or exempted.   |
| Europe inventory (EINECS/ELINCS/NLP)        | : All components are listed or exempted.   |
| Japan inventory                             | : Japan inventory (CSCL): At least one component is not listed.<br>Japan inventory (ISHL): Not determined. |
| New Zealand Inventory of Chemicals (NZIoC)  | : All components are listed or exempted.   |
| Philippines inventory (PICCS)               | : All components are listed or exempted.   |
| Korea inventory (KECI)                      | : Not determined.  |
| Taiwan Chemical Substances Inventory (TCSI) | : All components are listed or exempted.   |
| Thailand inventory                          | : Not determined.  |
| Turkey inventory                            | : Not determined.  |
| United States inventory (TSCA 8b)           | : All components are listed or exempted.   |
| Vietnam inventory                           | : Not determined.  |
| -   |  |

The information stated in this section relates solely to the conformity of the chemical product with the countries Inventories. The information used to confirm the inventory status of this product may be based on additional data to the chemical composition shown in Section 3. Other regulations may apply for importation or marketing authorizations.

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## Section 16. Other information

#### Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### Procedure used to derive the classification

|  | Classification                              | Justification                          |
|--|---|--|
| Not classified.  |   |  |
| History  |   |  |
| Date of revision   | : 2022/05/16                                |  |
| Date of previous revision  | : No previous validation                    |  |
| Version  | : 1   |  |
| Version       : 1         Key to abbreviations       : ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = Intermediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973<br>as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br>N/A = Not available<br>SGG = Segregation Group<br>UN = United Nations |   | cient<br>of Pollution From Ships, 1973 |
| References   | : Not available.                            |  |
| Indicates information that   | has changed from previously issued version. |  |

| Date of revision         : 2022/05/16         1 | USA | ENGLISH 1 | 11/12 |
|---|-----|-----------|-------|
|---|-----|-----------|-------|



#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.