

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 2/18/2021 Revision date: 11/24/2021 Version: 1.3

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : ZIP-STRIP 125M

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Zip-Chem Products
400 Jarvis Drive
Morgan Hill, CA 95037 - United States
T 408-782-2335 - F 408-782-6304
4info@zipchem.com

1.4. Emergency telephone number

Emergency number : 1-800-424-9300

| Country | Organization/Company | Address | Emergency number | Comment |
|---------|----------------------|---------|------------------|---------|
| US | Chemtrec | | 1-800-424-9300 | |

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

| Flammable liquids Category 3 | H226 | Flammable liquid and vapor | On basis of test data |
|--|------|--|-----------------------|
| Serious eye damage/eye irritation Category 2 | H319 | Causes serious eye irritation | Calculation method |
| Skin sensitization, Category 1 | H317 | May cause an allergic skin reaction | Calculation method |
| Carcinogenicity Not classified | | | Expert judgment |
| Specific target organ toxicity (repeated exposure) Category 2 | H373 | May cause damage to organs (liver) through prolonged or repeated exposure (oral) | Calculation method |
| Hazardous to the aquatic environment - Acute Hazard Category 3 | H402 | Harmful to aquatic life | Calculation method |
| Hazardous to the aquatic environment - Chronic Hazard Category 3 | H412 | Harmful to aquatic life with long lasting effects | Calculation method |

Full text of H statements : see section 16

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2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)







Signal word (GHS US)

Hazard statements (GHS US)

: Warning

: H226 - Flammable liquid and vapor

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H373 - May cause damage to organs (liver) through prolonged or repeated exposure (oral)

H402 - Harmful to aquatic life

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS US)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P233 - Keep container tightly closed.

P240 - Ground/Bond container and receiving equipment.

P241 - Use explosion-proof electrical/ventilating/lighting equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P260 - Do not breathe vapors. P261 - Avoid breathing vapors.

P264 - Wash hands thoroughly after handling.

P272 - Contaminated work clothing must not be allowed out of the workplace.

P273 - Avoid release to the environment.
P280 - Wear protective gloves, eye protection.

P302+P352 - If on skin: Wash with plenty of water.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P314 - Get medical advice/attention if you feel unwell.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P370+P378 - In case of fire: Use alcohol resistant foam, an extinguishing blanket, carbon dioxide

(CO2), dry extinguishing powder, extinguishing powder, foam to extinguish.

P403+P235 - Store in a well-ventilated place. Keep cool.

P501 - Dispose of contents/container to a hazardous or special waste collection point.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|---|--------------------|-------|---|
| Distillates (petroleum), hydrotreated light | - | 15-30 | Flam. Liq. 4, H227 Asp. Tox. 1, H304 |
| 2-BUTOXYETHANOL | CAS-No.: 111-76-2 | 1-7 | Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 |
| 2,2'-IMINODIETHANOL | CAS-No.: 111-42-2 | 1-5 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Carc. 2, H351 STOT RE 2, H373 |
| D-LIMONENE | CAS-No.: 5989-27-5 | 1-5 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

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 : Get medical advice/attention if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin

irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : 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.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Fire hazard : Flammable liquid and vapor.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

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5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting

: 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 equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures

: Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eves.

6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public

Other information

: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

Hygiene measures

: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Ground/bond container and receiving equipment.

Storage conditions

: Store in a well-ventilated place. Keep cool. Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ZIP-STRIP 125M

No additional information available

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| D-LIMONENE (5989-27-5) | | | |
|---|--|--|--|
| No additional information available | | | |
| 2,2'-IMINODIETHANOL (111-42-2) | | | |
| USA - ACGIH - Occupational Exposure Limits | | | |
| Local name | Diethanolamine | | |
| ACGIH OEL TWA | 1 mg/m³ (Inhalable fraction and vapor) | | |
| Remark (ACGIH) | TLV® Basis: Liver & kidney dam. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans) | | |
| Regulatory reference | ACGIH 2021 | | |
| 2-BUTOXYETHANOL (111-76-2) | | | |
| USA - ACGIH - Occupational Exposure Limits | | | |
| Local name | 2-Butoxyethanol (EGBE) | | |
| ACGIH OEL TWA [ppm] | 20 ppm | | |
| Remark (ACGIH) | TLV® Basis: Eye & URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI | | |
| Regulatory reference | ACGIH 2021 | | |
| USA - OSHA - Occupational Exposure Limits | | | |
| Local name | 2-Butoxyethanol | | |
| OSHA PEL (TWA) [1] | 240 mg/m³ | | |
| OSHA PEL (TWA) [2] | 50 ppm | | |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 | | |
| Distillates (petroleum), hydrotreated light | | | |
| No additional information available | | | |

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves. Safety glasses.

| Gloves. Salety glasses. | |
|-----------------------------------|--|
| Hand protection: | |
| Protective gloves | |
| Eye protection: | |
| Safety glasses | |
| Skin and body protection: | |
| Wear suitable protective clothing | |

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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Personal protective equipment symbol(s):





SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : Colorless
Odor : aromatic

Odor threshold : No data available pH : No data available. Melting point : No data available. Freezing point : No data available boiling point : No data available colling point

Flash point : 53 °C

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Not applicable. Vapor pressure : No data available Relative vapor density at 20 °C : 0.5 mm of Hg

Relative density : 0.84
Density : 0.84 g/ml

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 : > 178.571 mm²/s
Viscosity, dynamic : > 150 cP

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

Flammable liquid and vapor.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

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10.5. Incompatible materials

No additional information available

Respiratory or skin sensitization

Germ cell mutagenicity

Carcinogenicity

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

| 1 | ľ | Ŀ | 1. | Inf | format | ion | on i | toxicol | logica | l effects |
|---|---|---|----|-----|--------|-----|------|---------|--------|-----------|
| | | - | | | Ullia | | OII. | LUXICUI | logica | I CIICCIO |

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| Acute toxicity (inhalation) : | Not classified |
|---|--|
| D-LIMONENE (5989-27-5) | |
| LD50 oral rat | > 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral) |
| LD50 dermal rabbit | > 5000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Read-across, Dermal) |
| 2,2'-IMINODIETHANOL (111-42-2) | |
| LD50 oral rat | > 710 mg/kg (Rat, Oral) |
| ATE US (oral) | 500 mg/kg body weight |
| 2-BUTOXYETHANOL (111-76-2) | |
| LD50 oral rat | 1746 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rat | > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, Rat, Male / female, Experimental value, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat | > 4.26 mg/l (4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s)) |
| ATE US (oral) | 1414 mg/kg body weight |
| ATE US (gases) | 4500 ppmV/4h |
| ATE US (vapors) | 11 mg/l/4h |
| ATE US (dust, mist) | 1.5 mg/l/4h |
| Distillates (petroleum), hydrotreated light | |
| LD50 oral rat | > 5000 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | ≥ 3160 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Male / female, Experimental value, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat | > 5.6 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s)) |
| Skin corrosion/irritation : | Not classified pH: No data available. |
| Serious eye damage/irritation : | Causes serious eye irritation. |

pH: No data available.

: Not classified

: Not classified.

: May cause an allergic skin reaction.

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| D-LIMONENE (5989-27-5) | | | | |
|-------------------------------------|---|--|--|--|
| IARC group | 3 - Not classifiable | | | |
| 2,2'-IMINODIETHANOL (111-42-2) | | | | |
| IARC group | 2B - Possibly carcinogenic to humans | | | |
| 2-BUTOXYETHANOL (111-76-2) | | | | |
| IARC group | 3 - Not classifiable | | | |
| Reproductive toxicity | : Not classified | | | |
| STOT-single exposure | : Not classified | | | |
| STOT-repeated exposure | : May cause damage to organs (liver) through prolonged or repeated exposure (oral). | | | |
| 2,2'-IMINODIETHANOL (111-42-2) | | | | |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. | | | |
| Aspiration hazard | : Not classified | | | |
| Viscosity, kinematic | $: > 178.571 \text{ mm}^2/\text{s}$ | | | |
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. | | | |
| Symptoms/effects after eye contact | : Eye irritation. | | | |

SECTION 12: Ecological information

| | | _ | | | | |
|---|-----|---|----------|-----|----|---|
| ч | 2.1 | _ | α | 716 | ПТ | 7 |
| | | | | | | |

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

| D-LIMONENE (5989-27-5) | | | | |
|--------------------------------|--|--|--|--|
| LC50 - Fish [1] | 720 µg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value) | | | |
| EC50 - Crustacea [1] | 0.307 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semistatic system, Fresh water, Experimental value, GLP) | | | |
| ErC50 algae | .32 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, static system, Fresh water, Experimental value, GLP) | | | |
| 2,2'-IMINODIETHANOL (111-42-2) | | | | |
| LC50 - Fish [1] | 1664 mg/l (96 h, Pimephales promelas, Pure substance) | | | |
| EC50 - Crustacea [1] | 55 mg/l (48 h, Daphnia magna, Pure substance) | | | |
| ErC50 algae | 9.5 mg/l (EPA 600/9-78-018, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration) | | | |
| 2-BUTOXYETHANOL (111-76-2) | | | | |
| LC50 - Fish [1] | 1474 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Lethal) | | | |
| EC50 - Crustacea [1] | 1550 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect) | | | |
| ErC50 algae | 1840 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration) | | | |

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12.2. Persistence and degradability

| D-LIMONENE (5989-27-5) | | |
|---|------------------------------------|--|
| Persistence and degradability | Readily biodegradable in water. | |
| ThOD | 3.29 g O₂/g substance | |
| 2,2'-IMINODIETHANOL (111-42-2) | | |
| Persistence and degradability | Readily biodegradable in water. | |
| Biochemical oxygen demand (BOD) | 0.22 g O₂/g substance | |
| Chemical oxygen demand (COD) | 1.52 g O₂/g substance | |
| ThOD | 2.13 g O ₂ /g substance | |
| 2-BUTOXYETHANOL (111-76-2) | | |
| Persistence and degradability | Readily biodegradable in water. | |
| Distillates (petroleum), hydrotreated light | | |
| Persistence and degradability | Readily biodegradable in water. | |

12.3. Bioaccumulative potential

| D-LIMONENE (5989-27-5) | | | | |
|---|---|--|--|--|
| BCF - Fish [1] | 864.8 l/kg (BCFBAF v3.01, Pisces, QSAR, Fresh weight) | | | |
| Partition coefficient n-octanol/water (Log Pow) | 4.38 (Experimental value, Equivalent or similar to OECD 117, 37 °C) | | | |
| Bioaccumulative potential | Potential for bioaccumulation (4 ≥ Log Kow ≤ 5). | | | |
| 2,2'-IMINODIETHANOL (111-42-2) | | | | |
| BCF - Fish [1] | 3.162 l/kg (BCFBAF v3.01, Estimated value, Fresh weight) | | | |
| Partition coefficient n-octanol/water (Log Pow) | -2.18 – -1.43 | | | |
| Bioaccumulative potential | Not bioaccumulative. | | | |
| 2-BUTOXYETHANOL (111-76-2) | | | | |
| Partition coefficient n-octanol/water (Log Pow) | 0.81 (Experimental value, BASF test, 25 °C) | | | |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). | | | |
| Distillates (petroleum), hydrotreated light | | | | |
| BCF - Fish [1] | 144.3 l/kg (BCFBAF v3.00, Pisces, Calculated value) | | | |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). | | | |

12.4. Mobility in soil

| D-LIMONENE (5989-27-5) | | |
|---|--|--|
| Ecology - soil | Low potential for mobility in soil. | |
| 2,2'-IMINODIETHANOL (111-42-2) | | |
| Partition coefficient n-octanol/water (Log Koc) | 0.98 – 1 (log Koc, Calculated value) | |
| Ecology - soil | No (test)data on mobility of the component(s) available. | |

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| 2-BUTOXYETHANOL (111-76-2) | | |
|---|--|--|
| Surface tension | urface tension 65.03 mN/m (20 °C, 2 g/l) | |
| Partition coefficient n-octanol/water (Log Koc) | 0.451 – 0.882 (log Koc, SRC PCKOCWIN v2.0, Calculated value) | |
| Ecology - soil | Highly mobile in soil. | |
| Distillates (petroleum), hydrotreated light | | |
| Surface tension | e tension 26.4 mN/m (25 °C, 100 %, Wilhelmy plate method: surface tension) | |
| Partition coefficient n-octanol/water (Log Koc) | 4.16 (log Koc, Read-across) | |
| Ecology - soil | Low potential for mobility in soil. | |

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information : Flammable vapors may accumulate in the container.

SECTION 14: Transport information

In accordance with Department of Transport / Transportation of Dangerous Goods / IMDG / IATA

| DOT | TDG | IMDG | IATA | | |
|---|---|---|---|--|--|
| 14.1. UN number | | | | | |
| 1993 | UN1993 | UN1993 | UN1993 | | |
| 14.2. Proper Shipping Name | 14.2. Proper Shipping Name | | | | |
| Flammable liquids, n.o.s. ((Distillates, petroleum, hydrotreated light)) | ((Distillates (petroleum), hydrotreated light)) | FLAMMABLE LIQUID, N.O.S. ((Distillates, petroleum, hydrotreated light)) | Flammable liquid, n.o.s. ((Distillates, petroleum, hydrotreated light)) | | |
| Transport document description | | | | | |
| UN1993 Flammable liquids, n.o.s. (Distillates, petroleum, hydrotreated light), 3, III | UN1993 (Distillates (petroleum), hydrotreated light), 3, III | UN UN1993 FLAMMABLE LIQUID, N.O.S. ((Distillates, petroleum, hydrotreated light)), 3, III | UN UN1993 Flammable liquid, n.o.s. ((Distillates, petroleum, hydrotreated light)), 3, III | | |
| 14.3. Transport hazard class(es | 14.3. Transport hazard class(es) | | | | |
| 3 | 3 | 3 | 3 | | |
| RAMMATE LIQUID | 3 | 3 | 3 | | |
| Not applicable | Not applicable | · | * | | |
| 14.4. Packing group | | | | | |
| III | III | III | III | | |

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| DOT | TDG | IMDG | IATA | |
|--|-----------------------------------|---|-----------------------------------|--|
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment: No | Dangerous for the environment: No | Dangerous for the environment: No Marine pollutant: No | Dangerous for the environment: No | |
| No supplementary information available | | | | |

14.6. Special precautions for user

DOT

UN-No.(DOT) : UN1993

DOT Special Provisions (49 CFR 172.102)

B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.

B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used

provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the

MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) 150 DOT Packaging Non Bulk (49 CFR 173.xxx) 203 DOT Packaging Bulk (49 CFR 173.xxx) 242 DOT Quantity Limitations Passenger aircraft/rail (49 : 60 L

CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49

CFR 175.75)

: 220 L

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

TDG

UN-No. (TDG) : UN1993 Emergency Response Guide (ERG) Number : 128

IMDG

Special provision (IMDG) : 223, 274, 955

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 : LP01, P001 Packing instructions (IMDG) IBC packing instructions (IMDG) : IBC03 Tank instructions (IMDG) : T4 Tank special provisions (IMDG) : TP1. TP29

: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS EmS-No. (Fire) : S-E - SPILLAGE SCHEDULE Echo - FLAMMABLE LIQUIDS, FLOATING ON WATER EmS-No. (Spillage)

Stowage category (IMDG) : A

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PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y344 PCA limited quantity max net quantity (IATA) : 10L PCA packing instructions (IATA) : 355 PCA max net quantity (IATA) : 60L CAO packing instructions (IATA) : 366 CAO max net quantity (IATA) : 220L Special provision (IATA) : A3 ERG code (IATA) : 3L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

Distillates (petroleum), hydrotreated light CAS-No. 15-30%

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

2,2'-IMINODIETHANOL CAS-No. 111-42-2 1-5%

2,2'-IMINODIETHANOL (111-42-2)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ 100 lb

15.2. International regulations

CANADA

D-LIMONENE (5989-27-5)

Listed on the Canadian DSL (Domestic Substances List)

2,2'-IMINODIETHANOL (111-42-2)

Listed on the Canadian DSL (Domestic Substances List)

2-BUTOXYETHANOL (111-76-2)

Listed on the Canadian DSL (Domestic Substances List)

Distillates (petroleum), hydrotreated light

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

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National regulations

ZIP-STRIP 125M

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

2,2'-IMINODIETHANOL (111-42-2)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations



This product can expose you to 2,2'-IMINODIETHANOL, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 11/24/2021

| Full text of H-phrases | |
|------------------------|---|
| H226 | Flammable liquid and vapor |
| H227 | Combustible liquid |
| H302 | Harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H351 | Suspected of causing cancer |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life |
| H402 | Harmful to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.