

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 5/5/2022 Revision date: 10/26/2022 Supersedes: 10/26/2022 Version: 1.8

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : LC-300 Solid Film Lubricant

Product code : V765-G75

Military/Aerospace Specification : SAE AS5272 Type 1

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Sandstrom Products Company 224 S Main St Port Byron, IL 61275 USA T 309-523-2121 - F 309-230-9745

1.4. Emergency telephone number

Emergency number : CHEMTREC (800) 424-9300 | (703) 527-3887

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

| Flammable liquids Category 1 | H224 | Extremely flammable liquid and vapor |
|--|------|--|
| Skin corrosion/irritation Category 2 | H315 | Causes skin irritation |
| Serious eye damage/eye irritation Category 2 | H319 | Causes serious eye irritation |
| Skin sensitization, Category 1 | H317 | May cause an allergic skin reaction |
| Carcinogenicity Category 1A | H350 | May cause cancer |
| Reproductive toxicity Category 2 | H361 | Suspected of damaging fertility or the unborn child |
| Specific target organ toxicity - Single exposure, Category 3, Narcosis | H336 | May cause drowsiness or dizziness |
| Specific target organ toxicity (repeated exposure) Category 2 | H373 | May cause damage to organs through prolonged or repeated |

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)







Signal word (GHS US) : Danger

Hazard statements (GHS US) : H224 - Extremely flammable liquid and vapor

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness

H350 - May cause cancer

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Precautionary statements (GHS US)

H361 - Suspected of damaging fertility or the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

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 dust/fume/gas/mist/vapors/spray.

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

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

P280 - Wear protective gloves/protective clothing/eye protection/face 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.

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P312 - Call a poison center or doctor if you feel unwell.

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

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

P332+P313 - If skin irritation occurs: Get medical advice/attention.

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

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

P362+P364 - Take off contaminated clothing and wash it before reuse.

P363 - Wash contaminated clothing before reuse.

P370+P378 - In case of fire: Use media other than water to extinguish.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

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

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)

74.19% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

81.3% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

95.72% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|--|---------------------|-----------|---|
| Methyl Ethyl Ketone | CAS-No.: 78-93-3 | 15 – 25 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |
| 1,3-dioxolane, stabilised | CAS-No.: 646-06-0 | 10 – 15 | Flam. Liq. 2, H225 STOT RE 2, H373 |
| Propylene Glycol Methyl Ether | CAS-No.: 107-98-2 | 10 – 15 | Flam. Liq. 3, H226 STOT SE 3, H336 |
| Diantimony trioxide | CAS-No.: 1309-64-4 | 5 – 10 | Carc. 2, H351 |
| poly(bisphenol A-co-epichlorohydrin), glycidyl end-capped, MM= 348 | CAS-No.: 25036-25-3 | 5 – 10 | Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H335 |
| toluene | CAS-No.: 108-88-3 | 5 – 10 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 |
| zinc phosphate | CAS-No.: 7779-90-0 | 1 – 5 | STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| n-butyl acetate | CAS-No.: 123-86-4 | 1 – 5 | Flam. Liq. 2, H225 STOT SE 3, H336 |
| Ethanol | CAS-No.: 64-17-5 | 1 – 5 | Flam. Liq. 1, H224 Carc. 1A, H350 |
| methyl isobutyl ketone; MIBK | CAS-No.: 108-10-1 | 0.1 – 0.5 | Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 |

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 : IF exposed or concerned: Get medical advice/attention.

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 : May cause drowsiness or dizziness.

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

Symptoms/effects after eye contact : Eye irritation.

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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.

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 : No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable

protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.

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. Notify authorities if product 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. Notify authorities if product enters sewers or public

waters.

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.

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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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

Hygiene measures

: Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. 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. Store locked up.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear respiratory protection.

Personal protective equipment symbol(s):







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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Color : Gray

Odor : strong Solvent Odor threshold : No data available рΗ : No data available Melting point : Not applicable Freezing point : No data available Boiling point : No data available

Flash point : 18.5 °F : No data available Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) : Not applicable. : No data available Vapor pressure Relative vapor density at 20°C : No data available Relative density : 1.2197 lb/gal : 10.15 lb/gal Density Solubility : No data available : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature Decomposition temperature : No data available

Viscosity, kinematic : 85 - 115 SEC. #1 ZAHN Viscosity, dynamic : No data available **Explosion limits** : No data available Explosive properties : No data available

: No data available Oxidizing properties

9.2. Other information

VOC content : 5.96 lb/gal

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.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

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SECTION 11: Toxicological information

| 11.1. Information on toxicological effects | |
|---|---|
| Acute toxicity (dermal) : | Not classified Not classified Not classified |
| LC-300 Solid Film Lubricant | |
| Unknown acute toxicity (GHS US) | 74.19% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 81.3% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 95.72% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist)) |
| zinc phosphate (7779-90-0) | |
| LD50 oral rat | > 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LC50 Inhalation - Rat | > 5.7 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Read-across, Inhalation (dust), 14 day(s)) |
| Diantimony trioxide (1309-64-4) | |
| LD50 oral rat | > 20000 mg/kg (Rat, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | > 8300 mg/kg body weight Animal: rabbit, Remarks on results: other: |
| LC50 Inhalation - Rat | > 5.2 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: other:, Remarks on results: other: |
| poly(bisphenol A-co-epichlorohydrin), glycidy | d end-capped, MM= 348 (25036-25-3) |
| LD50 oral rat | 11400 mg/kg (Rat, Oral) |
| ATE US (oral) | 11400 mg/kg body weight |
| 1,3-dioxolane, stabilised (646-06-0) | |
| LD50 oral rat | > 3000 mg/kg (Rat, Oral) |
| LD50 dermal rabbit | 8480 mg/kg (Rabbit, Dermal) |
| LC50 Inhalation - Rat | > 20 mg/l (4 h, Rat, Inhalation) |
| LC50 Inhalation - Rat [ppm] | 22574 ppm |
| ATE US (dermal) | 8480 mg/kg body weight |
| ATE US (gases) | 22574 ppmV/4h |
| Propylene Glycol Methyl Ether (107-98-2) | |
| LD50 oral rat | 4016 mg/kg body weight (EU Method B.1 tris: Acute oral toxic – Acute toxic class method, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rat | > 2000 mg/kg body weight (Equivalent or similar to EU Method B.3, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s)) |
| LD50 dermal rabbit | > 2000 mg/kg Source: ECHA |
| ATE US (oral) | 4016 mg/kg body weight |
| Ethanol (64-17-5) | |
| LD50 oral rat | 10470 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 9720 - 11380 |

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| Ethanol (64-17-5) | | |
|--|--|--|
| ATE US (oral) | 10470 mg/kg body weight | |
| methyl isobutyl ketone; MIBK (108-10-1) | | |
| ATE US (gases) | 4500 ppmV/4h | |
| ATE US (vapors) | 11 mg/l/4h | |
| ATE US (dust, mist) | 1.5 mg/l/4h | |
| Serious eye damage/irritation : Respiratory or skin sensitization : Germ cell mutagenicity : | Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Not classified May cause cancer. | |
| Diantimony trioxide (1309-64-4) | | |
| IARC group | 2B - Possibly carcinogenic to humans | |
| Ethanol (64-17-5) | | |
| IARC group | 1 - Carcinogenic to humans | |
| methyl isobutyl ketone; MIBK (108-10-1) | | |
| IARC group | 2B - Possibly carcinogenic to humans | |
| toluene (108-88-3) | | |
| IARC group | 3 - Not classifiable | |
| | Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. | |
| poly(bisphenol A-co-epichlorohydrin), glycidyl end-capped, MM= 348 (25036-25-3) | | |
| STOT-single exposure | May cause respiratory irritation. | |
| Methyl Ethyl Ketone (78-93-3) | | |
| STOT-single exposure | May cause drowsiness or dizziness. | |
| Propylene Glycol Methyl Ether (107-98-2) | | |
| STOT-single exposure | May cause drowsiness or dizziness. | |
| methyl isobutyl ketone; MIBK (108-10-1) | | |
| STOT-single exposure | May cause drowsiness or dizziness. | |
| toluene (108-88-3) | | |
| STOT-single exposure | May cause drowsiness or dizziness. | |
| n-butyl acetate (123-86-4) | | |
| STOT-single exposure | May cause drowsiness or dizziness. | |
| STOT-repeated exposure : | May cause damage to organs through prolonged or repeated exposure. | |
| zinc phosphate (7779-90-0) | | |
| LOAEL (oral,rat,90 days) | 53.8 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | |

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| zinc phosphate (7779-90-0) | | |
|--|---|--|
| NOAEL (oral,rat,90 days) | 31.52 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Da Oral Toxicity Study in Rodents) | |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. | |
| 1,3-dioxolane, stabilised (646-06-0) | | |
| NOAEL (oral,rat,90 days) | 75 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents) | |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. | |
| Propylene Glycol Methyl Ether (107-98-2) | | |
| LOAEL (oral,rat,90 days) | 2757 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents) | |
| NOAEL (oral,rat,90 days) | 919 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents) | |
| NOAEL (dermal,rat/rabbit,90 days) | > 1000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) | |
| Ethanol (64-17-5) | | |
| LOAEL (oral,rat,90 days) | 3200 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | |
| NOAEL (oral,rat,90 days) | 1730 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other: | |
| methyl isobutyl ketone; MIBK (108-10-1) | | |
| LOAEL (oral,rat,90 days) | 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | |
| NOAEL (oral,rat,90 days) | 250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | |
| NOAEC (inhalation,rat,vapor,90 days) | 4106 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) | |
| toluene (108-88-3) | | |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. | |
| Aspiration hazard Viscosity, kinematic Symptoms/effects | Not classified 85 – 115 SEC, #1 ZAHN May cause drowsiness or dizziness. | |
| Symptoms/effects after skin contact Symptoms/effects after eye contact | in May cause drowsiness of dizziness.i. Irritation. May cause an allergic skin reaction.i. Eye irritation. | |

SECTION 12: Ecological information

| 12.1. Toxicity | |
|----------------------------|--|
| 6, 6 | The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. |
| zinc phosphate (7779-90-0) | |
| LC50 - Fish [1] | 0.169 mg/l (ASTM E729-88, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Readacross, Lethal) |

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| zinc phosphate (7779-90-0) | | |
|--|--|--|
| EC50 - Crustacea [1] | 0.86 mg/l (EPA 600/4-85/013: Method for measuring the acute toxicity of effluents to freshwater and marine organisms, 48 h, Daphnia magna, Static system, Fresh water, Read-across, GLP) | |
| Diantimony trioxide (1309-64-4) | | |
| LC50 - Fish [1] | 14.4 mg/l Test organisms (species): Pimephales promelas | |
| LC50 - Fish [2] | 6.9 mg/l Test organisms (species): other: | |
| ErC50 algae | > 36.6 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Antimony) | |
| 1,3-dioxolane, stabilised (646-06-0) | | |
| LC50 - Fish [1] | 10000 mg/l | |
| EC50 - Crustacea [1] | 6950 mg/l | |
| NOEC (chronic) | 197.4 mg/l Test organisms (species): other: | |
| NOEC chronic fish | 546.3 mg/l Test organisms (species): no data Duration: '30 d' | |
| Propylene Glycol Methyl Ether (107-98-2) | | |
| LC50 - Fish [1] | ≥ 1000 mg/l (Equivalent or similar to OECD 203, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, Lethal) | |
| EC50 - Crustacea [1] | 21100 – 25900 mg/l Source: ECHA | |
| EC50 - Other aquatic organisms [1] | 2954 mg/l Test organisms (species): other aquatic crustacea: | |
| ErC50 algae | > 1000 mg/l (7 day(s), Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration) | |
| Ethanol (64-17-5) | | |
| EC50 - Crustacea [1] | > 10000 mg/l Test organisms (species): Daphnia magna | |
| methyl isobutyl ketone; MIBK (108-10-1) | | |
| LC50 - Fish [1] | > 179 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) | |
| EC50 - Crustacea [1] | > 200 mg/l Test organisms (species): Daphnia magna | |
| n-butyl acetate (123-86-4) | | |
| EC50 - Other aquatic organisms [1] | 32 mg/l Test organisms (species): Artemia salina | |
| 12.2. Persistence and degradability | | |
| zinc phosphate (7779-90-0) | | |
| Persistence and degradability | Biodegradability: not applicable. | |
| Chemical oxygen demand (COD) | Not applicable (inorganic) | |
| ThOD | Not applicable (inorganic) | |
| Diantimony trioxide (1309-64-4) | | |
| Persistence and degradability | Biodegradability: not applicable. | |
| Chemical oxygen demand (COD) | Not applicable (inorganic) | |
| ThOD | Not applicable (inorganic) | |

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poly(bisphenol A-co-epichlorohydrin), glycidyl end-capped, MM= 348 (25036-25-3)

| 1,3-dioxolane, stabilised (646-06-0) | | |
|---|--|--|
| Persistence and degradability | Not readily biodegradable in water. | |
| Propylene Glycol Methyl Ether (107-98-2) | | |
| Persistence and degradability | Readily biodegradable in the soil. Readily biodegradable in water. | |
| ThOD | 1.95 g O₂/g substance | |
| 12.3. Bioaccumulative potential | | |
| zinc phosphate (7779-90-0) | | |
| BCF - Other aquatic organisms [1] | 116 – 60960 (21 day(s), Gammarus sp., Semi-static system, Salt water, Read-across, Fresh weight) | |
| Bioaccumulative potential | High potential for bioaccumulation (BCF > 5000). | |
| Diantimony trioxide (1309-64-4) | | |
| BCF - Other aquatic organisms [1] | 5.6 l/kg (17 day(s), Hyalella azteca, Fresh water, Experimental value, Fresh weight) | |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). | |
| poly(bisphenol A-co-epichlorohydrin), glycidyl end-capped, MM= 348 (25036-25-3) | | |
| Bioaccumulative potential | No bioaccumulation data available. | |
| 1,3-dioxolane, stabilised (646-06-0) | | |
| Partition coefficient n-octanol/water (Log Pow) | -0.37 | |
| Bioaccumulative potential | Not bioaccumulative. | |
| Propylene Glycol Methyl Ether (107-98-2) | | |
| Partition coefficient n-octanol/water (Log Pow) | < 1 (Experimental value, Equivalent or similar to OECD 117, 20 °C) | |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). | |
| 12.4. Mobility in soil | | |
| zinc phosphate (7779-90-0) | | |
| Surface tension | 70.4 mN/m (20 °C, 2.7E-4 %, OECD 115: Surface Tension of Aqueous Solutions) | |
| Ecology - soil | Adsorbs into the soil. | |
| Diantimony trioxide (1309-64-4) | | |
| Surface tension | No data available in the literature | |
| Ecology - soil | Adsorbs into the soil. | |
| Propylene Glycol Methyl Ether (107-98-2) | | |
| Surface tension | 70.7 mN/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions) | |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.152 (log Koc, SRC PCKOCWIN v2.0, Calculated value) | |
| Ecology - soil | Highly mobile in soil. | |

Biodegradability in water: no data available.

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12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods Additional information

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : Flammable vapors may accumulate in the container.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

| DOT | TDG | IMDG | IATA | |
|--|-----------------|---|-----------------------------------|--|
| 14.1. UN number | 14.1. UN number | | | |
| 1263 | Not applicable | 1263 | 1263 | |
| 14.2. Proper Shipping Name | | | | |
| Paint related material | Not applicable | PAINT RELATED MATERIAL | Paint related material | |
| 14.3. Transport hazard class(es) | | | | |
| 3 | Not applicable | 3 | 3 | |
| Not applicable | | 3 | 3 | |
| 14.4. Packing group | | | | |
| II | Not applicable | II | II | |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment: No | Not applicable | Dangerous for the environment: No Marine pollutant: No | Dangerous for the environment: No | |
| No supplementary information available | le | | | |

14.6. Special precautions for user

DOT

UN-No.(DOT) : UN1263

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DOT Special Provisions (49 CFR 172.102)

: 149 - When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in 173.150(b)(2) of this subchapter for inner packaging may be increased to 5 L (1.3 gallons).

367 - For the purposes of documentation and package marking: a. The proper shipping name "Paint related material" may be used for consignments of packages containing "Paint" and "Paint related material" in the same package; b. The proper shipping name "Paint related material, corrosive, flammable" may be used for consignments of packages containing "Paint, corrosive, flammable" and "Paint related material, corrosive, flammable" in the same package; c. The proper shipping name "Paint related material, flammable, corrosive" may be used for consignments of packages containing "Paint, flammable, corrosive" and "Paint related material, flammable, corrosive" in the same package; and d. The proper shipping name "Printing ink related material" may be used for consignments of packages containing "Printing ink" and "Printing ink related material" in the same package.

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

B131 - When transported by highway, rail, or cargo vessel, waste Paint and Paint related material (UN1263; PG II and PG III), when in plastic or metal inner packagings of not more than 26.5 L (7 gallons), are excepted from the marking requirements in §172.301(a) and (c) and the labeling requirements in §172.400(a), when further packed in the following specification and non-specification bulk outer packagings and under the following conditions:

- a. Primary receptacles must conform to the general packaging requirements of subpart B of part 173 of this subchapter and may not leak. If they do leak, they must be overpacked in packagings conforming to the specification requirements of part 178 of this subchapter or in salvage packagings conforming to the requirements in §173.12 of this subchapter.
- b. Primary receptacles must be further packed in non-specification bulk outer packagings such as cubic yard boxes, plastic rigid-wall bulk containers, dump trailers, and roll-off containers. Bulk outer packagings must be liquid tight through design or by the use of lining materials.
- c. Primary receptacles may also be further packed in specification bulk outer packagings. Authorized specification bulk outer packagings are UN11G fiberboard intermediate bulk containers (IBC) and UN13H4 woven plastic, coated and with liner flexible intermediate bulk containers (FIBCs) meeting the Packing Group II performance level and lined with a plastic liner of at least 6 mil thickness.
- d. All inner packagings placed inside bulk outer packagings must be blocked and braced to prevent movement during transportation that could cause the container to open or fall over. Specification IBCs and FIBCs are to be secured to a pallet.

IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). 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.

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. TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F).

TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, 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) : 173
DOT Packaging Bulk (49 CFR 173.xxx) : 242
DOT Quantity Limitations Passenger aircraft/rail (49 : 5 L

CFR 173.27)

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DOT Vessel Stowage Location

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DOT Quantity Limitations Cargo aircraft only (49

CFR 175.75)

: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

: 60 L

TDG

Emergency Response Guide (ERG) Number : 128

IMDG

Special provision (IMDG) : 163, 367
Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

Packing provisions (IMDG) : PP1

IBC packing instructions (IMDG) : IBC02

Tank instructions (IMDG) : T4

Tank special provisions (IMDG) : TP1, TP8, TP28

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

Stowage category (IMDG) : B

Properties and observations (IMDG) : Miscibility with water depends upon the composition.

IATA

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y341
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 353
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 364
CAO max net quantity (IATA) : 60L

Special provision (IATA) : A3, A72, A192

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:

| Methyl Ethyl Ketone | CAS-No. 78-93-3 | 15 – 25% |
|---------------------------|------------------|----------|
| 1,3-dioxolane, stabilised | CAS-No. 646-06-0 | 10 – 15% |

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.

| Diantimony trioxide | CAS-No. 1309-64-4 | 5 – 10% |
|------------------------------|-------------------|------------|
| Lead Metal | CAS-No. 7439-92-1 | < 0.1% |
| methyl isobutyl ketone; MIBK | CAS-No. 108-10-1 | 0.1 – 0.5% |

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| toluene CAS-No. 108-88-3 | 5 – 10% |
|--------------------------|---------|
|--------------------------|---------|

Diantimony trioxide (1309-64-4)

CERCLA RQ 1000 lb

methyl isobutyl ketone; MIBK (108-10-1)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ 5000 lb

toluene (108-88-3)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ 1000 lb

n-butyl acetate (123-86-4)

CERCLA RQ 5000 lb

15.2. International regulations

CANADA

zinc phosphate (7779-90-0)

Listed on the Canadian DSL (Domestic Substances List)

Diantimony trioxide (1309-64-4)

Listed on the Canadian DSL (Domestic Substances List)

poly(bisphenol A-co-epichlorohydrin), glycidyl end-capped, MM= 348 (25036-25-3)

Listed on the Canadian DSL (Domestic Substances List)

Propylene Glycol Methyl Ether (107-98-2)

Listed on the Canadian DSL (Domestic Substances List)

Ethanol (64-17-5)

Listed on the Canadian DSL (Domestic Substances List)

methyl isobutyl ketone; MIBK (108-10-1)

Listed on the Canadian DSL (Domestic Substances List)

toluene (108-88-3)

Listed on the Canadian DSL (Domestic Substances List)

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n-butyl acetate (123-86-4)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Diantimony trioxide (1309-64-4)

Listed on IARC (International Agency for Research on Cancer)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Propylene Glycol Methyl Ether (107-98-2)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Ethanol (64-17-5)

Listed on IARC (International Agency for Research on Cancer)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

methyl isobutyl ketone; MIBK (108-10-1)

Listed on IARC (International Agency for Research on Cancer)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

toluene (108-88-3)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

n-butyl acetate (123-86-4)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations



This product can expose you to methyl isobutyl ketone; MIBK, which is known to the State of California to cause cancer and birth defects or other reproductive harm. 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 : 10/26/2022

| Full text of H-phrases | |
|------------------------|--|
| H224 | Extremely flammable liquid and vapor |
| H225 | Highly flammable liquid and vapor |
| H226 | Flammable liquid and vapor |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |

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| Full text of H-phrases | |
|------------------------|---|
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H336 | May cause drowsiness or dizziness |
| H350 | May cause cancer |
| H351 | Suspected of causing cancer |
| H361 | Suspected of damaging fertility or the unborn child |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |

Safety Data Sheet (SDS), USA

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