



Lucas FL-0 Low-Viscosity Racing Engine Oil

Safety Data Sheet

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

Date of issue: 01/03/2020 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Product name : Lucas FL-0 Low-Viscosity Racing Engine Oil
 Product code : 10849, 10892

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Lubricant
 Restrictions on use : No additional information available

1.3. Supplier

Lucas Oil Products, Inc
 302 North Sheridan Street
 Corona, California 92880-2067 - USA
 T (951) 270-0154 - F (951) 270-1902
GHewgill@lucasoil.com - www.LucasOil.com

1.4. Emergency telephone number

Emergency number : ChemTel
 1-800-255-3924 (USA, Canada, Puerto Rico, US V.I.)
 +1-813-248-0585 (International)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS classification

| | | |
|--|------|---|
| Acute toxicity (inhalation:dust,mist) Category 4 | H332 | Harmful if inhaled. |
| Serious eye damage/eye irritation, Category 2A | H319 | Causes serious eye irritation. |
| Aspiration hazard, Category 1 | H304 | May be fatal if swallowed and enters airways. |

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Danger

Hazard statements (GHS) :

H304 - May be fatal if swallowed and enters airways.
 H319 - Causes serious eye irritation.
 H332 - Harmful if inhaled.

Precautionary statements (GHS) :

P261 - Avoid breathing mist, spray, vapours
 P264 - Wash hands, forearms and face thoroughly after handling.
 P271 - Use only outdoors or in a well-ventilated area.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310 - If swallowed: Immediately call a poison center or doctor.
 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.
 P312 - Call a poison center/doctor if you feel unwell
 P331 - Do NOT induce vomiting.
 P337+P313 - If eye irritation persists: Get medical advice/attention.
 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.

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2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS_US)

11.5% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

11.5% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

11.5% 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

3.2. Mixtures

| Name | Product identifier | % | GHS classification |
|--|-----------------------|-----------|---|
| Dec-1-ene, dimers, hydrogenated | (CAS-No.) 68649-11-6 | 0 – 60 | Acute Tox. 4 (Inhalation:dust,mist), H332 Asp. Tox. 1, H304 |
| reaction mass of: branched icosane branched docosane branched tetracosane | (CAS-No.) 151006-58-5 | 0 – 40 | Acute Tox. 4 (Inhalation), H332 Asp. Tox. 1, H304 Aquatic Chronic 4, H413 |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (DMSO < 3%) | (CAS-No.) 72623-87-1 | 0.1 – 5 | Asp. Tox. 1, H304 |
| Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts | (CAS-No.) 84605-29-8 | 1 – 2 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411 |
| distillates (petroleum), hydrotreated middle | (CAS-No.) 64742-46-7 | 0.1 – 1.5 | Asp. Tox. 1, H304 |

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

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

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse.
- 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 : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

- Symptoms/effects after inhalation : Harmful if inhaled.
- Symptoms/effects after eye contact : Causes serious eye irritation.
- Symptoms/effects after ingestion : May be fatal if swallowed and enters airways. Risk of aspiration pneumonia. May damage lungs if swallowed and aspirated.

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 : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

- Fire hazard : Burning produces irritating, toxic and noxious fumes.
- Reactivity : No dangerous reactions known.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not breathe aerosol. Do not breathe vapour. Do not get in eyes, on skin, or on clothing.

6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8.2.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Refer to section 8.2.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not breathe aerosol. Do not breathe vapours. Do not get in eyes, on skin, or on clothing.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool well ventilated place.

Incompatible products : Strong oxidizers. Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Dec-1-ene, dimers, hydrogenated (68649-11-6) | | |
|---|---------------------------------------|--|
| ACGIH | Local name | Dec-1-ene, dimers, hydrogenated - Aerosols (thoracic fraction) |
| ACGIH | ACGIH TWA (mg/m ³) | 1 mg/m ³ Source: ExxonMobil |
| reaction mass of: branched icosane branched docosane branched tetracosane (151006-58-5) | | |
| Not applicable | | |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (DMSO < 3%) (72623-87-1) | | |
| ACGIH | ACGIH TWA (mg/m ³) | 5 mg/m ³ oil mist |
| ACGIH | ACGIH STEL (mg/m ³) | 10 mg/m ³ oil mist |
| distillates (petroleum), hydrotreated middle (64742-46-7) | | |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 5 mg/m ³ oil mist |
| OSHA | OSHA PEL (STEL) (mg/m ³) | 10 mg/m ³ oil mist |
| NIOSH | NIOSH REL (TWA) (mg/m ³) | 5 mg/m ³ oil mist |
| NIOSH | NIOSH REL (STEL) (mg/m ³) | 10 mg/m ³ oil mist |
| Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8) | | |
| Not applicable | | |

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8.2. Appropriate engineering controls

Appropriate engineering controls : Avoid creating mist or spray. Avoid splashing. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. 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:

Avoid all unnecessary exposure.

Hand protection:

Wear suitable gloves resistant to chemical penetration. Nitrile rubber gloves

Eye protection:

Safety glasses with side shields. In case of splashing or aerosol production: protective goggles.

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Use an approved respirator equipped with oil/mist cartridges.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---------------------------------|
| Physical state | : Liquid |
| Colour | : amber |
| Odour | : characteristic |
| Odour threshold | : No data available |
| pH | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : > 148.9 °C |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Flammability (solid, gas) | : Non flammable. |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : No data available |
| Log Pow | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : 11 mm ² /s @ 40 °C |
| Viscosity, dynamic | : No data available |
| Explosive limits | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong oxidizers. Strong acids. Strong bases.

10.6. Hazardous decomposition products

hydrocarbons. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Harmful if inhaled.

| | |
|---------------------------------|---|
| ATE (dust,mist) | 1.5 mg/l/4h |
| Unknown acute toxicity (GHS_US) | 11.5% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 11.5% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 11.5% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist)) |

Dec-1-ene, dimers, hydrogenated (68649-11-6)

| | |
|----------------------------|-------------------------|
| LD50 oral rat | > 5000 mg/kg bodyweight |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 inhalation rat (mg/l) | < 5 mg/l |
| ATE (dust,mist) | 1.5 mg/l/4h |

reaction mass of: branched icosane|branched docosane|branched tetracosane (151006-58-5)

| | |
|----------------------------|--------------|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| LC50 inhalation rat (mg/l) | > 1 mg/l/4h |
| ATE (gases) | 4500 ppmv/4h |
| ATE (vapours) | 11 mg/l/4h |
| ATE (dust,mist) | 1.5 mg/l/4h |

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (DMSO < 3%) (72623-87-1)

| | |
|--------------------|-------------------------|
| LD50 oral rat | > 5000 mg/kg bodyweight |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight |

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)

| | |
|----------------------------|-----------------------|
| LD50 oral rat | 3100 mg/kg |
| LD50 dermal rat | > 2002 mg/kg |
| LC50 inhalation rat (mg/l) | > 2.3 mg/l/4h |
| ATE (oral) | 3100 mg/kg bodyweight |

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Not classified
STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

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| | |
|------------------------------------|--|
| Aspiration hazard | : May be fatal if swallowed and enters airways. |
| Viscosity, kinematic | : 11 mm ² /s @ 40 °C |
| Likely routes of exposure | : Inhalation. Skin and eye contact. |
| Symptoms/effects after inhalation | : Harmful if inhaled. |
| Symptoms/effects after eye contact | : Causes serious eye irritation. |
| Symptoms/effects after ingestion | : May be fatal if swallowed and enters airways. Risk of aspiration pneumonia. May damage lungs if swallowed and aspirated. |

SECTION 12: Ecological information

12.1. Toxicity

| reaction mass of: branched icosane branched docosane branched tetracosane (151006-58-5) | |
|---|--------------------------------------|
| LC50 fish 1 | > 1000 mg/l 96 h Oncorhynchus mykiss |
| EC50 crustacea | 230 mg/l |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (DMSO < 3%) (72623-87-1) | |
| LC50 fish 1 | > 100 mg/l |
| EC50 crustacea | > 10000 mg/l |
| ErC50 (algae) | ≥ 100 mg/l |
| NOEC (acute) | > 100 mg/kg |
| Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8) | |
| LC50 fish 1 | 4.5 mg/l |
| EC50 crustacea | 23 mg/l |
| ErC50 (algae) | 21 mg/l |
| NOEC (acute) | 1.8 mg/l |
| NOEC chronic crustacea | 0.8 mg/l |

12.2. Persistence and degradability

| Lucas FL-0 Low-Viscosity Racing Engine Oil | |
|---|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |
| reaction mass of: branched icosane branched docosane branched tetracosane (151006-58-5) | |
| Persistence and degradability | Readily biodegradable. |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (DMSO < 3%) (72623-87-1) | |
| Persistence and degradability | Not readily biodegradable. |
| Biodegradation | 2 – 4 % |
| Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8) | |
| Biodegradation | 1.5 % 28 days |

12.3. Bioaccumulative potential

| Lucas FL-0 Low-Viscosity Racing Engine Oil | |
|---|------------------|
| Bioaccumulative potential | Not established. |
| reaction mass of: branched icosane branched docosane branched tetracosane (151006-58-5) | |
| Log Pow | > 4.61 |
| Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8) | |
| Log Kow | 0.56 |

12.4. Mobility in soil

| Lucas FL-0 Low-Viscosity Racing Engine Oil | |
|---|------------------|
| Ecology - soil | Not established. |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (DMSO < 3%) (72623-87-1) | |
| Mobility in soil | 22 % |

12.5. Other adverse effects

Other information : Avoid release to the environment.

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SECTION 13: Disposal considerations

13.1. Disposal methods

- Sewage disposal recommendations : Do not dispose of waste into sewer.
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated.

Transport by sea

- Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Methyl Laurate), 9, III, MARINE POLLUTANT
UN-No. (IMDG) : 3082
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class (IMDG) : 9 - Miscellaneous dangerous substances and articles
Packing group (IMDG) : III - substances presenting low danger
Limited quantities (IMDG) : 5 L

Air transport

- Transport document description (IATA) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Methyl Laurate), 9, III
UN-No. (IATA) : 3082
Proper Shipping Name (IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class (IATA) : 9 - Miscellaneous Dangerous Goods
Packing group (IATA) : III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

reaction mass of: branched icosane|branched docosane|branched tetracosane (151006-58-5)

EPA TSCA Regulatory Flag : P - P - indicates a commenced Premanufacture Notice (PMN) substance.

15.2. International regulations

CANADA

Dec-1-ene, dimers, hydrogenated (68649-11-6)

Listed on the Canadian DSL (Domestic Substances List) inventory.

reaction mass of: branched icosane|branched docosane|branched tetracosane (151006-58-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (DMSO < 3%) (72623-87-1)

Listed on the Canadian DSL (Domestic Substances List) inventory.

distillates (petroleum), hydrotreated middle (64742-46-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)

Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

Dec-1-ene, dimers, hydrogenated (68649-11-6)

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

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reaction mass of: branched icosane|branched docosane|branched tetracosane (151006-58-5)

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

distillates (petroleum), hydrotreated middle (64742-46-7)

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

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)

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

National regulations

Dec-1-ene, dimers, hydrogenated (68649-11-6)

Listed on KECI (Korean Existing Chemicals Inventory)

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (DMSO < 3%) (72623-87-1)

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

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

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

Listed on Taiwan National Chemical Inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

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

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)

Not listed on the Inventory of Existing Chemical Substances of China (IECSC).

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on Taiwan National Chemical Inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

15.3. US State regulations

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

SECTION 16: Other information

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Data sources

: ACGIH (American Conference of Government Industrial Hygienists). Canadian Centre for Occupational Health and Safety. Accessed at: http://www.ccohs.ca/oshanswers/legisl/whmis_classifi.html. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>. European Chemicals Agency (ECHA) Registered Substances list. Accessed at <http://echa.europa.eu/>. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. United Nations Economic Commission for Europe: About the GHS. Accessed at http://www.unece.org/trans/danger/publi/ghs/ghs_welcome_e.html.

Other information

: None.

Full text of H-statements:

| | |
|------|---|
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |

Abbreviations and acronyms:

| | |
|--|---|
| | ATE: Acute Toxicity Estimate |
| | CAS (Chemical Abstracts Service) number |
| | EC50: Environmental Concentration associated with a response by 50% of the test population. |

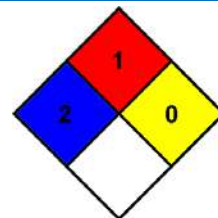
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| | |
|--|--|
| | GHS: Globally Harmonized System (of Classification and Labeling of Chemicals). |
| | LD50: Lethal Dose for 50% of the test population |
| | STEL: Short Term Exposure Limits |
| | TSCA: Toxic Substances Control Act |
| | TWA: Time Weighted Average |

- NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
- NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.
- NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and not reactive with water.



SDS Prepared by: The Redstone Group
110 Polaris Pkwy
Suite 200
Westerville, OH USA 43082
P: +1 (614) 923-7472
www.redstonegrp.com

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.