# SAFETY DATA SHEET

## Section 1. Identification of the material and the supplier

| | |
|---|---|
| Product: | **Kerosene** |
| Product Code: | KS1 / KS5 / KS20 |
| Product Use: | Industrial solvent |
| Restriction of use: | Refer to Section 15 |
| New Zealand Supplier: | **Glasscorp Limited** |
| Address: | **124 Bush Road**<br>**Albany**<br>**Auckland**<br>**New Zealand** |
| Telephone: | 09 415 6338 |
| Fax Number: | 09 415 6339 |
| Website | www.glasscorp.co.nz |
| **Emergency Telephone:** | **09 415 6338 or 0800 764 766 (National Poison Line)** |
| Glasscorp date of issue: | 23 April 2020 |

## Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: Solvents (Flammable) – HSR002650

Pictograms:


Signal Word: **DANGER**

| HSNO Classes | Hazard Code | Hazard Statement | GHS Category |
|---|---|---|---|
| 3.1C | H226 | Flammable liquid and vapour. | Flam. Liq. 3 |
| 6.1E (asp) | H304 | May be fatal if swallowed and enters airways. | Asp. Tox. 1 |
| 6.3B | H315 | Causes mild skin irritation. | Skin Irrit. 3 |
| 6.9N | H336 | May cause drowsiness or dizziness. | STOT SE 3 |
| 9.1B | H411 | Toxic to aquatic life with long lasting effects. | Aquatic Chronic 2 |

| Prevention Code | Prevention Statement |
|---|---|
| P102 | Keep out of reach of children. |
| P103 | Read label before use. |
| P210 | Keep away from heat, sparks, open flames or hot surfaces. No smoking. |

| | |
|---|---|
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical, ventilating and lighting. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P261 | Avoid breathing fumes, mist, vapours and spray. |
| P264 | Wash hands thoroughly after handling. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective clothing as detailed in Section 8. |

| **Response code** | **Response Statement** |
|---|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P312 | Call a POISON CENTER or doctor/physician if you feel unwell. |
| P331 | Do NOT induce vomiting. |
| P391 | Collect spillage. |
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P303 + P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P332 + P313 | If skin irritation occurs: Get medical advice/ attention. |
| P370 + P378 | In case of fire: Use CO2, dry chemical, or foam for extinction. |

| **Storage Code** | **Storage Statement** |
|---|---|
| P405 | Store locked up. |
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P403 + P235 | Store in a well-ventilated place. Keep cool. |

| **Disposal Code** | **Disposal Statement** |
|---|---|
| P501 | Triple rinse and dispose of according to local regulations |

## Section 3. Composition / Information on Ingredients

| **Hazardous Ingredients** | **Cas Number** | **Weight** |
|---|---|---|
| Naphtha, petroleum, hydrodesulfurized heavy | 64742-82-1 | 100% |

## Section 4. First Aid Measures

**Routes of Exposure:**

| | |
|---|---|
| If in Eyes | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if irritation persists. |
| If on Skin | Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention. |
| If Swallowed | If swallowed, do NOT induce vomiting. Obtain immediate medical advice. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into lungs. |
| If Inhaled | Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to |

assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

**Most important symptoms and effects, both acute and delayed**

| | |
|---|---|
| Symptoms: | Refer to Section 11 for full details. |
| Swallowed: | May be fatal if swallowed and enters airways. |
| Inhaled: | May cause drowsiness or dizziness. |
| Eyes: | Not applicable. |
| Skin: | Causes mild skin irritation. |

Advice to Doctors: Treat according to symptoms. Avoid gastric lavage: risk of aspiration of product to the lungs with the potential to cause chemical pneumonitis.

## Section 5. Fire Fighting Measures

| | |
|---|---|
| **Hazard Type** | Flammable liquid and vapour. Vapour/air mixtures may ignite explosively. Vapours are heavier than air and spread at floor level. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limit. |
| **Hazards from combustion products** | Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide and oxides of nitrogen. |
| **Suitable Extinguishing media** | Alcohol foam, dry chemical or carbon dioxide.<br>Do NOT use water jet. |
| **Precautions for firefighters and special protective clothing** | Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. In case of fire the product may be violently or explosively reactive. Use water spray to disperse vapours. This product should be prevented from entering drains and watercourses. |
| **HAZCHEM CODE** | **3Y** |

## Section 6. Accidental Release Measures

**Equipment and emergency procedures**

Flammable liquid and vapour. Avoid contact with spilled material. Isolate and evacuate area. Wear personal protective equipment. Prevent entry by unnecessary or unprotected personnel. If possible, isolate or remove sources of ignition. Increase ventilation.

**Environmental precautions**

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

**Methods and materials for containment and cleaning up**

If possible, contain the spill. Place inert absorbent, non- combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations. Dispose of waste according to the applicable local and national regulations as detailed in Section 13.

## Section 7. Handling and Storage

**Precautions for safe handling**:

- Keep out of reach of children.

- Read label before use.
- Avoid contact with skin and eyes.
- Use in designated areas with local exhaust ventilation, away from sparks, flames and other ignition sources. No smoking.
- Use approved flammable liquid storage containers in the work area.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical, ventilating and lighting.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Avoid breathing fumes, mist, vapours and spray.
- Wash hands thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Wear overalls, impervious gloves and safety glasses.
- Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet facilities.

**Precautions for safe storage:**

- Store locked up.
- Keep out of reach of children.
- Store in a cool, dry, well-ventilated place and out of direct sunlight.
- Store away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing.
- Keep containers closed when not in use, securely sealed and protected against physical damage.
- Inspect regularly for deficiencies such as damage or leaks.
- Have appropriate fire extinguishers available in and near the storage area.

## Section 8 Exposure Controls / Personal Protection

**WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

| | TWA | | STEL | |
|---|---|---|---|---|
| **Substance** | **ppm** | **mg/m³** | **ppm** | **mg/m³** |

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2019 11TH EDITION

**Engineering Controls:**

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. A flame-proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirements.

**Personal Protection Equipment**

| | |
|---|---|
| **Eyes** | Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices |

| | |
|---|---|
| | should conform to relevant regulations. |
| **Hands and Skin** | Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Wear safety footwear. Final choice will vary according to individual circumstances. Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled. |
| **Respiratory** | If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. |
| **General** | Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location. |

## Section 9 Physical and Chemical Properties

| | |
|---|---|
| **Appearance** | Clear light coloured Liquid |
| **Odour** | Hydrocarbon |
| **Odour Threshold** | Not available |
| **pH** | Not available |
| **Boiling Point** | 158-201°C |
| **Melting Point** | Not available |
| **Freezing Point** | Not available |
| **Flash Point** | 43°C (Tag Closed Cup) |
| **Flammability** | Flammable liquid or vapour |
| **Upper and Lower Explosive Limits** | 1.0 – 6% v/v |
| **Vapour Pressure** | 2 hPa ($20^0$C) |
| **Vapour Density** | 4.8 (air=1) |
| **Specific Gravity** | 0.79 |
| **Soluble in water** | Negligible (0.05g/l) |
| **Partition Coefficient:** | Not available |
| **Auto-ignition Temperature** | 240°C |
| **Decomposition Temperature** | Not available |
| **Kinematic Viscosity** | Not available |
| **Evaporation Rate (n-Butyl acetate = 1)** | 0.1 |
| **% Volatile by Volume** | Not available |

## Section 10. Stability and Reactivity

| | |
|---|---|
| **Stability of Substance** | This product is stable under normal conditions. |
| **Possibility of hazardous reactions:** | Reacts with incompatible materials. Reacts violently with oxidising agents. |
| **Conditions to Avoid** | Heat, open flames and other sources of ignition. Prevent the buildup of mists or vapours in the work atmosphere. |
| **Incompatible Materials** | Strong oxidising agents. |
| **Hazardous Decomposition Products** | Thermal decomposition may result in the release of toxic and/or irritating fumes including: carbon dioxide and carbon monoxide. |

## Section 11 Toxicological Information

**Acute Effects:**

| | |
|---|---|
| **Swallowed** | Not applicable. See aspiration. LD50 (rat): >5000 mg/kg |
| **Dermal** | Not applicable. LD50 (rat): >5000 mg/kg |
| **Inhalation** | Inhalation of product vapours can cause irritation of the nose, throat and respiratory system. May cause irritation to the mucous membrane and upper airways, especially where vapours or mists are generated. Symptoms include sneezing, coughing, wheezing, shortness of breath, headache, dizziness, drowsiness, nausea and vomiting. Prolonged inhalation may cause central nervous system depression with symptoms including dizziness, drowsiness, nausea and headaches. |
| **Eye** | Not applicable. |
| **Skin** | Causes mild skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis. |

**Chronic Effects:**

| | |
|---|---|
| **Carcinogenicity** | Not applicable. |
| **Reproductive Toxicity** | Not applicable. |
| **Germ Cell Mutagenicity** | Not applicable. |
| **Aspiration** | May be fatal if swallowed and enters airways. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause severe pulmonary injury that may lead to death. May cause irritation to the mouth, throat, esophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea. |
| **STOT/SE** | Not applicable. |
| **STOT/RE** | Not applicable. |

## Section 12. Ecotoxicological Information

HSNO Classes: 9.1B = Toxic to aquatic life with long lasting effects.

| | |
|---|---|
| **Aquatic Toxicity**<br>Acute Toxicity - Fish LC50 (fish): 10-100 mg/L<br>Acute Toxicity – Daphnia - EC50 ( Daphnia magna ): 10-100 mg/L<br>Acute Toxicity – Algae - EC50 ( algae ): 1-10 mg/L | |
| **Persistence and degradability** | No data available |
| **Bioaccumulation** | No data available |
| **Mobility in Soil** | No data available |
| **Other adverse effects** | No data available |

Do not discharge this material into waterways, drains and sewers.

## Section 13. Disposal Considerations

**Disposal Method:**
Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain harmful residue and/or fumes and vapours that are flammable. Ensure that empty packaging is allowed to dry.

**Precautions or methods to avoid:** This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product must be disposed as chemical waste in accordance with the local authority.

## Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012


**Road, Rail, Sea and Air Transport**

| | |
|---|---|
| **UN No** | 1223 |
| **Class – Primary** | 3 |
| **Packing Group** | III |
| **Proper Shipping Name** | KEROSENE |
| **Marine Pollutant** | Yes |
| **Special Provisions** | If the product's individual container is below 5L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG. |

## Section 15 Regulatory Information

EPA Approval Code: Solvents (Flammable) – HSR002650

HSNO Classification: 3.1C, 6.1E(asp), 6.3B, 6.9N, 9.1B

| HSW (HS) Regulations 2017 | Trigger Quantity |
|---|---|
| Certified Handlers | Not required |
| Location Certificate | 500L(>5L), 1500L(<5L), 250L open (3.1C) |
| Signage Trigger Quantities (Schedule 3) | 1000L (3.1C) |
| Emergency Response Plan (Schedule 5) | 1000L(9.1B) |
| Secondary Containment (Schedule 5) | 1000L(9.1B) |
| Tracking (Schedule 26) | Not required |
| Fire Extinguishers | 500L = 2 x required |
| Restriction of use | Only for intended use. |

## Section 16 Other Information

### Glossary

| | |
|---|---|
| AWC | Aggregate water capacity. |
| $EC_{50}$ | Median effective concentration. |
| EEL | Environmental Exposure Limit. |
| EPA | Environmental Protection Authority |
| HSNO | Hazardous Substances and New Organisms. |
| HSW | Health and Safety at Work. |
| $LC_{50}$ | Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it. |
| $LD_{50}$ | Lethal dose to kill 50% of test animals/organisms. |
| LEL | Lower explosive level. |
| OSHA | American Occupational Safety and Health Administration. |
| TEL | Tolerable Exposure Limit. |
| TLV | Threshold Limit Value-an exposure limit set by responsible authority. |
| UEL | Upper Explosive Level |
| WES | Workplace Exposure Limit |

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

**Disclaimer**

This document has been issued by Glasscorp Limited and serves as the product Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to Glasscorp Limited by the Manufacturer and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While Glasscorp Limited have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Glasscorp Limited accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS. The information herein is given in good faith, but no warranty, express or implied is made. Please contact Glasscorp Limited, if further information is required.

Issue Date: 23 April 2020 Review Date: 23 April 2025