# SAFETY DATA SHEET

**Issue Date** 14-Aug-2017 **Revision Date** 14-Aug-2017 **Version** 1

## Section 1: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product identifier**

**Product Name** Gelcoat

**Description** White Liquid

**Other means of identification**

**UN Number** UN1866

**Recommended use of the chemical and restrictions on use**

**Recommended Use**

**Details of the supplier of the safety data sheet**

**Manufacturer**

Norski Holdings Ltd
10 Northpoint Street
Plimmerton
Wellington 5247
New Zealand

For further information, please contact

**Contact Point** +64 (04) 233 6184
**E-mail address** Enquiries@norski.co.nz

**Emergency telephone number**

**Emergency Telephone** +64 0800 500 341

## Section 2: HAZARD(S) IDENTIFICATION

**Regulatory information**

**EPA New Zealand HSNO approval code or group standard** HSR002495 Group Standard Additives, Process Chemicals and Raw Materials (Flammable) Group Standard 2006

**Dangerous Goods Class** 3 PG III

**GHS Classification**

| | |
|---|---|
| **Flammable liquids** | Category 3 (HSNO - 3.1C) |
| **Reproductive toxicity** | Category 2 (HSNO - 6.8B) |
| **Acute toxicity - Inhalation (Dusts/Mists)** | Category 4 (HSNO - 6.1D) |
| **Specific target organ toxicity (repeated exposure)** | Category 1 (HSNO - 6.9A) |
| **Specific target organ toxicity (single exposure)** | Category 3 (HSNO - 6.1E) |
| **Skin corrosion/irritation** | Category 2 (HSNO - 6.3A) |
| **Serious eye damage/eye irritation** | Category 2 (HSNO - 6.4A) |
| **Skin sensitisation** | Category 1A (HSNO - 6.5B) |
| **Acute aquatic toxicity** | Category 2 (HSNO - 9.1D) |
| **Chronic aquatic toxicity** | Category 3 (HSNO - 9.1C) |

**Label elements**

**Signal word** DANGER

H226 - Flammable liquid and vapour
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H361 - Suspected of damaging fertility or the unborn child
H372 - Causes damage to organs through prolonged or repeated exposure
H401 - Toxic to aquatic life
H412 - Harmful to aquatic life with long lasting effects

**Precautionary Statements - Prevention**
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Use only outdoors or in a well-ventilated area
Wash face, hands and any exposed skin thoroughly after handling
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Do not breathe dust/fume/gas/mist/vapours/spray
Do not eat, drink or smoke when using this product
Avoid release to the environment
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Use explosion-proof electrical/ ventilating/ lighting/ equipment
Keep cool

**Precautionary Statements - Response**
IF exposed or concerned: Get medical advice/attention
Specific treatment (see supplemental first aid instructions on this label)
IF IN EYES: 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
If skin irritation or rash occurs: Get medical advice/attention
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before re-use
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
In case of fire: Use $CO_2$, dry chemical, or foam for extinction
**Precautionary Statements - Storage**
Store locked up
Store in a well-ventilated place. Keep container tightly closed
**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

**Other hazards**
This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product
Avoid dust formation  Sanding and grinding dust may be harmful if inhaled

## Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS

**Substance**

Not applicable

**Mixture**

| Chemical Name | CAS No | Weight-% |
|---|---|---|
| Styrene | 100-42-5 | 30-<60 |
| Crystalline silica | 14808-60-7 | 1-<2.5 |
| 2-Hydroxy-4-methoxybenzophenone | 131-57-7 | <0.25 |
| Cobalt octoate | 136-52-7 | <0.25 |
| Non-hazardous ingredients | Balance | |

## Section 4: FIRST AID MEASURES

**Description of first aid measures**

**General advice** Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. IF exposed or concerned: Get medical advice/attention.

**Emergency telephone number** Poisons Information Centre, New Zealand: 0800 764 766

**Inhalation** Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.

**Skin contact** Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. Get medical attention if irritation develops and persists. Wash off immediately with soap and plenty of water for at least 15 minutes.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a doctor.

**Self-protection of the first aider** Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

**Itching. Rashes. Hives. Burning sensation.**

**Indication of any immediate medical attention and special treatment needed**

**May cause sensitisation in susceptible persons. SEEK URGENT MEDICAL ATTENTION**

## Section 5: FIREFIGHTING MEASURES

**Suitable Extinguishing Media**

**Suitable extinguishing media**
Carbon dioxide (CO2). Dry chemical. Alcohol-resistant foam. Water spray.

**Unsuitable extinguishing media**
Do not use water jetstream

**Specific hazards arising from the chemical**

Flammable. Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Product is or contains a Sensitiser. May cause sensitisation by skin contact.

**Special protective actions for fire-fighters**

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

**Hazchem code** •3WE.

## Section 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions**
Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take action to prevent static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

**For emergency responders**
Use personal protection recommended in Section 8.

**Environmental precautions**

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

**Methods and material for containment and cleaning up**

**Methods for containment**
Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dam far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Methods for cleaning up**
Take action to prevent static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

**Precautions to prevent secondary hazards**

**Prevention of secondary hazards**
Clean contaminated objects and areas thoroughly observing environmental regulations.

**Reference to other sections**
See section 8 for more information. See section 13 for more information.

## Section 7: HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling**
Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take action to prevent static discharges. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Ensure adequate ventilation. Take off contaminated clothing and wash it before reuse. In case of insufficient ventilation, wear suitable respiratory equipment.

**General Hygiene Considerations**
When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before re-use.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions**
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e. pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Store separately. Hazardous polymerisation may take place during a fire due to heat. Closed containers could violently rupture. Do not store at temperatures above 27C.

**Incompatible materials**
Strong acids. Strong bases. Strong oxidising agents.

## Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Control parameters**

**Exposure Limits** .

| Chemical Name | New Zealand |
|---|---|
| Styrene<br>100-42-5 | TWA: 50 ppm<br>TWA: 213 mg/m3<br>STEL: 100 ppm<br>STEL: 426 mg/m3<br>Skin* |
| Crystalline silica<br>14808-60-7 | TWA: 0.2 mg/m3 |

**Biological occupational exposure limits**

| Chemical Name | New Zealand |
|---|---|
| Styrene<br>100-42-5 | 1 g/L urine end of shift Mandelic acid |

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Tight sealing safety goggles. Face protection shield.

**Skin and body protection** Antistatic footwear. Wear fire resistant or flame retardant clothing. Gloves made of plastic or rubber. Suitable protective clothing. Apron.

**Respiratory protection** Where respiratory protection is required, use a respirator selected and in accordance with AS/NZS 1715 and AS/NZS 1716.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | liquid |
| **Appearance** | clear Hazy |
| **Colour** | clear |
| **Odour** | Characteristic Styrene |
| **Odour threshold** | No information available |

| Property | Values | Remarks •Method |
|---|---|---|
| **pH** | | No information available |
| **Melting point / freezing point** | | No information available |
| **Boiling point/boiling range** | 145 °C | (based on components) |
| **Flash point** | 31 °C | Tag Closed Cup |
| **Evaporation rate** | 0.49 | |
| **Flammability (solid, gas)** | | No information available |
| **Flammability Limit in Air** | | |
| **Upper flammability limit:** | 6.1 % | |
| **Lower flammability limit:** | 1.1 % | |
| **Vapour pressure** | 6 | hPa, 20°C Derived from solvent |
| **Vapour density** | 3.6 | Derived from solvent |
| **Relative density** | 0.95 | |
| **Water solubility** | | insoluble |
| **Solubility(ies)** | - | No information available |
| **Partition coefficient** | | No information available |
| **Auto-ignition temperature** | 490 °C | Derived from solvent |
| **Decomposition temperature** | | No information available |
| **Kinematic viscosity** | 316 mm2/s | |
| **Dynamic viscosity** | > 300 mPa s | No information available |
| **Explosive properties** | No information available | |
| **Oxidising properties** | No information available | |

**Other Information**

| | |
|---|---|
| **VOC Content (%)** | No information available |
| **Density** | No information available |

* This information may be derived from the components in the preparation.

## Section 10: STABILITY AND REACTIVITY

**Reactivity**
No Data Available.

**Chemical stability**

Stable under normal conditions.

Explosion data

| | |
|---|---|
| Sensitivity to Mechanical Impact | None. |
| Sensitivity to Static Discharge | May be ignited by heat, sparks or flames. |

**Possibility of Hazardous Reactions**
HAZARDOUS POLYMERISATION MAY OCCUR UPON DEPLETION OF INHIBITOR.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible materials**

Strong acids. Strong bases. Strong oxidising agents.

**Hazardous Decomposition Products**

Decomposition products can include and are not limited to:Styrene.

## Section 11: TOXICOLOGICAL INFORMATION

**Acute toxicity**

**Information on likely routes of exposure**

**Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

**Eye contact** Specific Test Data for the substance is not available. Irritating to the eyes based on components. Causes serious eye irritation.

**Skin contact** Specific Test Data for the substance is not available. Causes skin irritation. May cause sensitisation by skin contact. Repeated or prolonged contact may cause allergic reaction reactions in very susceptible people.

**Ingestion** Specific Test Data for the substance is not available. Ingestion may cause gastrointestinal irritation, nausea vomiting and diarrhoea.

**Numerical measures of toxicity - Product Information**

**The following values are calculated based on chapter 3.1 of the GHS document**
**Converted acute toxicity point estimates may have been used when only acute toxicity hazard classification is available.**

**ATEmix (inhalation-vapour)** 30.60
**ATEmix (inhalation-dust/mist)** 3.90
0% of the mixture consists of ingredient(s) of unknown toxicity
0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour)
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Styrene | = 5000 mg/kg ( Rat ) | - | = 11.8 mg/L ( Rat ) 4 h |
| Crystalline silica | - | - | - |
| 2-Hydroxy-4-methoxybenzophenone | = 7400 mg/kg ( Rat ) | - | - |

*See section 16 for terms and abbreviations*

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation**
Classification based on individual ingredients of the mixture. Irritating to skin

**Serious eye damage/eye irritation**
Classification based on individual ingredients of the mixture. Irritating to eyes.

**Sensitisation**
May cause sensitisation by skin contact.

**Germ cell mutagenicity**
No information available.

**Carcinogenicity**
.

| Chemical Name | New Zealand |
|---|---|
| Crystalline silica - 14808-60-7 | Known or presumed human carcinogen if in fine respirable dust only |

**Reproductive toxicity**
Contains a known or suspected reproductive toxin.

**STOT - single exposure**
May cause respiratory irritation.

**STOT - repeated exposure**
Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard**
No information available.

*See section 16 for terms and abbreviations*

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity**

**Ecotoxicity**

**Unknown Aquatic Toxicity** 0.04060791% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical Name | Fish |
|---|---|
| Styrene | 19.03 - 33.53 mg/L LC50 96 h Lepomis macrochirus static<br>6.75 - 14.5 mg/L LC50 96 h Pimephales promelas static<br>3.24 - 4.99 mg/L LC50 96 h Pimephales promelas flow-through<br>58.75 - 95.32 mg/L LC50 96 h Poecilia reticulata static |

| Chemical Name | Crustacea |
|---|---|
| Styrene | 3.3 - 7.4 mg/L EC50 48 h Daphnia magna |

| Chemical Name | Algae/aquatic plants |
|---|---|
| Styrene | 0.46 - 4.3 mg/L EC50 72 h Pseudokirchneriella subcapitata static<br>0.15 - 3.2 mg/L EC50 96 h Pseudokirchneriella subcapitata static<br>1.4 mg/L EC50 72 h Pseudokirchneriella subcapitata<br>0.72 mg/L EC50 96 h Pseudokirchneriella subcapitata |

**Persistence and degradability**

No information available.

**Bioaccumulative potential**

.

| Chemical Name | Partition coefficient |
|---|---|
| Styrene | *2.95* |

**Mobility**

**Mobility in soil**

No information available.

**Mobility**

No information available.

**Other adverse effects**

.

**Endocrine Disruptor Information** .

## Section 13: DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**

**Waste from Residues/unused products**

## Section 14: TRANSPORT INFORMATION

**Road transport**

| | |
|---|---|
| **UN Number** | UN1866 |
| **Proper shipping name** | RESIN SOLUTION |
| **Description** | UN1866, RESIN SOLUTION, 3, III |
| **Hazard Class** | 3 |
| **Packing Group** | III |
| **Special Precautions for users** | 223, * |
| **Hazchem code** | •3Y. |
| **IERG** | 14 |

**IMDG**

| | |
|---|---|
| **UN/ID no** | UN1866 |
| **Proper shipping name** | RESIN SOLUTION |
| **Description** | UN1866, RESIN SOLUTION, 3, III, (31°C C.C.) |
| **Hazard Class** | 3 |
| **Packing Group** | III |
| **EmS-No** | F-E, S-E |
| **Special Precautions for users** | 223, 955 |

**Transport in Bulk According to Annex II of MARPOL and the IBC CODE**
No information available

**IATA**

| | |
|---|---|
| **UN/ID no** | UN1866 |
| **Proper shipping name** | Resin solution |
| **Description** | UN1866, Resin solution, 3, III |
| **Hazard Class** | 3 |
| **Packing Group** | III |
| **ERG Code** | 3L |

## Section 15: REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**New Zealand**
**Regulatory information**

| | |
|---|---|
| **EPA New Zealand HSNO approval code or group standard** | HSR002495 Group Standard Additives, Process Chemicals and Raw Materials (Flammable) Group Standard 2006 |

**International Inventories**

| | |
|---|---|
| **AICS** - Australian Inventory of Chemical Substances | Listed or exempt |
| **DSL** - Canadian Domestic Substances List | Listed or exempt |
| **IECSC** - China Inventory of Existing Chemical Substances | Listed or exempt |
| **EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances | Listed or exempt |
| **ENCS** - Japan Existing and New Chemical Substances | Listed or exempt |
| **KECL** - Korean Existing and Evaluated Chemical Substances | Listed or exempt |
| **NZIoC** - New Zealand Inventory of Chemicals | Listed or exempt |
| **PICCS** - Philippines Inventory of Chemicals and Chemical Substances | Listed or exempt |
| **CICR** - Turkey Chemical Inventory Control Regulation | No information available |
| **NCSR** - Taiwan National Chemical Substance Registry | No information available |
| **TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory | Listed or exempt |

For confirmation on the European REACh status contact the Allnex Compliance group at PSRA-Customer-Requests@allnex.com

**International Regulations**

**Ozone-depleting substances (ODS)** Not applicable

**Persistent Organic Pollutants** Not applicable

**Export Notification requirements** Not applicable

## Section 16: ANY OTHER RELEVANT INFORMATION

**Legend Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

| | | | |
|---|---|---|---|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | * | Skin designation |
| C | Carcinogen | | |

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**End of Safety Data Sheet**