# SAFETY DATA SHEET

**Version: 1.0**
**Date of Issue: 19 April 2018**
**Date of First Issue: 19 April 2018**

**www.vishaypg.com**

**In accordance with Schedule 1 of Hazardous Products Regulations (HPR (WHMIS 2015)**

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product identifier**

| | |
|---|---|
| Product Name | Gagekote 5 Part B |
| Other Means of Identification | None |

**Recommended use and restrictions**

| | |
|---|---|
| Recommended use | Epoxy / Urethane Resin |
| Restrictions on use | Anything other than the above. |

**Initial Supplier Identifier**

| | |
|---|---|
| Company Identification | VISHAY MEASUREMENTS GROUP, INC. |
| Telephone | Post Office Box 27777<br>Raleigh, NC 27611<br>USA |
| E-Mail (competent person) | mm.us@vishaypg.com |

**Emergency telephone number**

| | | |
|---|---|---|
| Emergency Phone No. | 1-800-424-9300 | CHEMTREC (24 hours) |
| Languages spoken | English | |

## SECTION 2: HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

**In accordance with Schedule 1 of Hazardous Products Regulations (HPR) (WHMIS 2015)**

Skin Corrosion/Irritation, Category 2
Skin Sensitisation, Category 1
Eye Irritation, Category 2
Aquatic toxicity, Chronic - Category 2

**Label elements**

Hazard Pictogram(s)

Signal Word(s): WARNING

Hazard Statement(s):
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.

Precautionary Statement(s):
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists, get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Dispose of contents in accordance with local, state or national legislation.

**Other hazards**: None known

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**Substances** Not applicable

**Mixtures**

GHS Classification

| Chemical Name | CAS No. | Concentration (%W/W) | Common name(s), synonym(s) of the substance | Hazard classification |
|---|---|---|---|---|
| Phenol, polymer with formaldehyde, glycidyl ether | 28064-14-4 | 45 - 70 | 2-(chloromethyl)oxirane; Formaldehyde; Phenol | Skin Corrosion/Irritation, Category 2<br>Skin Sensitisation, Category 1<br>Eye Irritation, Category 2<br>Aquatic toxicity, Chronic - Category 2 |
| Poly[oxy(methyl-1,2-ethanediyl)], α-(2-oxiranylmethyl)-ω-(2-oxiranylmethoxy)- | 26142-30-3 | 15 - 40 | Polypropylene glycol diglycidyl ether; DIGLYCIDYL ETHER OF POLY PROPYLENE GLYCOL | Skin Corrosion/Irritation, Category 2<br>Skin Sensitisation, Category 1<br>Eye Irritation, Category 2 |
| Talc* | 14807-96-6 | 10 - 30 | Talc; trimagnesium | Not classified as hazardous for supply. |
| Quartz* | 14808-60-7 | <0.1 | Silica crystalline quartz; Silicon Dioxide | Specific target organ toxicity — single exposure - Category 3 (Respiratory tract)<br>Specific target organ toxicity — repeated exposure - Category 1 (Lungs)<br>Carcinogenicity - Category 1A |

Prescribed Concentration Ranges used for trade secret purposes (Canada Gazette, Part II, Vol. 152, No. 8)
* See Section: 8, 11 and 15

## SECTION 4: FIRST AID MEASURES

**Description of first aid measures**

| | |
|---|---|
| Self-protection of the first aider | Use personal protective equipment as required. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. Avoid breathing vapours. Avoid contact with skin, eyes or clothing. |
| Inhalation | If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Apply artificial respiration if breathing has ceased or shows signs of failing. Get medical advice/attention if you feel unwell. |
| Skin Contact | IF ON SKIN (or hair): After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water. If irritation (redness, rash, blistering) develops, get medical attention. |
| Eye Contact | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Immediately call a POISON CENTER/doctor. |
| Ingestion | Rinse mouth with water (do not swallow). Do NOT induce vomiting. If vomiting occurs turn patient on side. Never give anything by mouth to an unconscious person. IF exposed or concerned: Call a POISON CENTER/doctor. |
| **Most important symptoms and effects, both acute and delayed** | Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. |
| **Indication of any immediate medical attention and special treatment needed** | Treat symptomatically. |

## SECTION 5: FIRE-FIGHTING MEASURES

**Extinguishing media**

| | |
|---|---|
| Suitable Extinguishing Media | As appropriate for surrounding fire. Extinguish preferably with foam, carbon dioxide or dry chemical. |
| Unsuitable extinguishing Media | Do not use water jet. Direct water jet may spread the fire. |

| | |
|---|---|
| **Special hazards arising from the substance or mixture** | Not flammable. May decompose in a fire giving off toxic fumes. Combustion products: Carbon monoxide, Carbon dioxide |
| **Special protective equipment and precautions for fire fighters** | Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers. |

## SECTION 6: ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| **Personal precautions, protective equipment and emergency procedures** | Use personal protective equipment as required. Wear appropriate personal protective equipment, avoid direct contact. Ensure operatives are trained to minimise exposures. Contaminated clothing should be laundered before reuse. Ensure adequate ventilation. Avoid breathing vapours. Avoid contact with skin, eyes or clothing.<br><br>**Large spillages**: Evacuate the area and keep personnel upwind. Only trained and properly protected personnel must be involved in clean-up operations. |
| **Environmental precautions** | Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. |
| **Methods and material for containment and cleaning up** | Contain spillages with sand, earth or any suitable adsorbent material. Sweep or shovel-up spillage and remove to a safe place. Transfer to a container for disposal or recovery.<br><br>**Small spillages:** Allow small spillages to evaporate provided there is adequate ventilation.<br><br>**Large spillages:** Only trained and properly protected personnel must be involved in clean-up operations. |
| **Reference to other sections** | See Section: 8, 13 |

## SECTION 7: HANDLING AND STORAGE

| | |
|---|---|
| **Precautions for safe handling** | Ensure operatives are trained to minimise exposures. Ensure adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing vapours. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Keep good industrial hygiene. Wash hands thoroughly after handling. Contaminated clothing should be thoroughly cleaned. Do not eat, drink or smoke at the work place. Keep from direct sunlight. |
| **Conditions for safe storage, including any incompatibilities** | Keep only in original container. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. |
| Storage temperature | Store at ambient temperature. |
| Incompatible materials | Strong oxidising agents, Acids and Bases. |
| **Specific end use(s)** | See Section: 1.2 |

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Occupational Exposure Limits** Not established.

| SUBSTANCE | CAS No. | ACGIH® TLV® (ppm) | | OSHA PEL (ppm) | | Note |
|---|---|---|---|---|---|---|
| | | TWA | STEL | TWA | STEL | |
| Talc | 14807-96-6 | 2 mg/m³^ | - | 20 mppcf | - | A4 |
| Quartz | 14808-60-7 | 0.025 mg/m³ | - | - | - | A2 |
| | | - | - | 30 | - | Total Dust |
| | | - | - | 10 | - | Respirable Dust |

Source: ACGIH: American Conference of Governmental Industrial Hygiene. TLV: Threshold Limit Value (ACGIH) PEL (OSHA)
A2: Suspected Human Carcinogen: Human data are accepted as adequate in quality but are conflicting or insufficient to classify the agent as a confirmed human carcinogen; OR, the agent is carcinogenic in experimental animals at dose(s) , by route(s) of exposure, at site(s), of histological

type(s), or by mechanism(s) considered relevant to worker exposure. The A2 is primarily when there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals with relevance to humans.
A4: Not Classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of the lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories.
^ Value is for particulate matter containing 0% Asbestos
mmppcf: Millions of particles per cubic foot of air

**Alberta: Occupational Health And Safety Code, 2009; Quebec: Health and Safety Work Act, 2016**

| SUBSTANCE | CAS No. | 8-hour Occupational Exposure Limits | | | 15-minute or ceiling (c) Occupational Exposure Limits | | Note |
|---|---|---|---|---|---|---|---|
| | | ppm | mg/m³ | f/cc | STEL (ppm) | STEL (mg/m³) | |
| Talc | 14807-96-6 | - | 0.025 | - | - | - | Alberta |
| | | - | 3 | - | - | - | OEL, Respirable Mass Fraction |
| Quartz | 14808-60-7 | - | 0.025 | - | - | - | Alberta |
| | | - | 0.1* | - | - | - | OEL, Respirable Mass Fraction |

Source: Alberta: Occupational Health And Safety Code, 2009
OEL: Quebec Work Health and Safety Regulations, Health and Safety Work Act, (Chapter S – 2.1, a. 223)
* Exposure by all routes should be carefully controlled to levels as low as possible

**British Columbia: Occupational Health and Safety Guidelines, 2015; Northwest Territories: Occupational Health and Safety Regulations, 2012; Yukon Territory: Occupational Health and Safety Act, 1986**

| SUBSTANCE | CAS No. | LTEL (8 hr TWA ppm) | LTEL (8 hr TWA mg/m³) | STEL (ppm) | STEL (mg/m³) | Note |
|---|---|---|---|---|---|---|
| Talc | 14807-96-6 | -<br>- | 2*<br>0.1 f/cc^ | -<br>- | -<br>- | WEL |
| | | - | 2 | - | - | NW |
| Quartz | 14808-60-7 | - | 0.025 | - | - | WEL |
| | | - | 0.05 | - | - | NW, Schedule R |

Source: WEL: Occupational Health and Safety Guidelines Part 5: Chemical Agents and Biological Agents (British Columbia)
NW: WSCC, Occupational Health and Safety Regulations, Northwest Territories Volume 3
Schedule R: Advice on Additional Personal Protection (APP)
* Value is for particulate matter containing 0% Asbestos and <1% Crystalline Silica
^ Value is for particulate matter containing Asbestos

**Ontario: Occupational Health and Safety Act, 1990; Saskatchewan: Occupational Health and Safety Regulations, 1996.**

| SUBSTANCE | CAS No. | Time Weighted Average (TWA) (mg/m³) | STEL (ppm) | Note |
|---|---|---|---|---|
| Talc | 14807-96-6 | 2* | - | WEL, Respirable Mass Fraction |
| | | 2 | - | SK |
| Quartz | 14808-60-7 | 0.10 | - | WEL, Respirable Mass Fraction |
| | | 0.05 | | SK, T20 |

Source: WEL: Occupational Health and Safety Act, R.R.O. 1990, Regulation 833, CONTROL OF EXPOSURE TO BIOLOGICAL OR CHEMICAL AGENTS (Ontario)
Saskatchewan (SK): Occupational Health and Safety Act, 1993. O-1.1 REG 1 Occupational Health and Safety Regulations, 1996.
T20: Applicable Laws: Section 306 and 311.
* Value is for particulate matter containing 0% Asbestos and <1% Crystalline Silica

**Biological limit value** Not established.

**Exposure controls**

| | |
|---|---|
| **Appropriate engineering controls** | Ensure adequate ventilation. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Atmospheric levels should be controlled in compliance with the occupational exposure limit. |
| **Individual protection measures, such as personal protective equipment (PPE)** | Keep good industrial hygiene. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing vapours. Avoid contact with skin, eyes or clothing. IF exposed: Wash immediately with water. Wash contaminated clothing before reuse. Do not eat, drink or smoke at the work place. |
| Eye/face protection  | Wear protective eye glasses for protection against liquid splashes. Wear eye protection with side protection. |
| Skin protection  | **Hand protection:**<br>Wear impervious gloves. Protective index 6, corresponding > 480 minutes of permeation time. Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Recommended: Butyl rubber, Nitrile rubber, Neoprene.<br><br>**Body protection:**<br>Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact. |
| Respiratory protection  | In case of inadequate ventilation wear respiratory protection. A suitable mask with filter type A may be appropriate. |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | |
|---|---|
| Appearance | Green, thixotropic paste |
| Odour | Slight |
| Odour threshold | Not established |
| pH | Not established |
| Melting point/freezing point | Not established |
| Initial boiling point and boiling range | Not established |
| Flash point | >150 ℃ [Closed cup] |
| Evaporation rate (Water = 1) | Not established |
| Flammability (solid, gas) | Not established |
| Upper/lower flammability or explosive limits | Not established |
| Vapour pressure | LT 1mm Hg |
| Vapour density | Not applicable |
| Relative density | Not established |
| Solubility(ies) | Partly soluble in water. |
| Partition coefficient: n-octanol/water | Not established |
| Auto-ignition temperature | Not established |
| Decomposition Temperature | Not established |
| Viscosity | Green, thixotropic paste |
| Explosive properties | Not established |
| Oxidising properties | Not established |

**Other information** None

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity** Stable under normal conditions.

| | |
|---|---|
| **Chemical stability** | Stable under normal conditions. |
| **Possibility of hazardous reactions** | Stable under normal conditions. Hazardous polymerisation will not occur. |
| **Conditions to avoid** | Heat |
| **Incompatible materials** | Strong oxidising agents, Acids and Bases. |
| **Hazardous decomposition product(s)** | Combustion products: Carbon monoxide, Carbon dioxide |

## SECTION 11: TOXICOLOGICAL INFORMATION

**Information on toxicological effects**

| | |
|---|---|
| **Acute toxicity - Ingestion** | Based upon the available data, the classification criteria are not met.<br>Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day. |
| **Acute toxicity - Inhalation** | Based upon the available data, the classification criteria are not met.<br>Acute Toxicity Estimate Mixture Calculation: Estimated LC50 >20.0 mg/l. |
| **Acute toxicity - Skin Contact** | Based upon the available data, the classification criteria are not met.<br>Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day. |
| **Skin corrosion/irritation** | Skin Corrosion/Irritation, Category 2; Causes skin irritation. |
| Phenol, polymer with formaldehyde, glycidyl ether | Skin Corrosion/Irritation - Category 2<br>No data |
| Poly[oxy(methyl-1,2-ethanediyl)], α-(2-oxiranylmethyl)-ω-(2-oxiranylmethoxy)- | Skin Corrosion/Irritation - Category 2<br>No data |
| **Serious eye damage/irritation** | Eye Irritation - Category 2 Causes serious eye irritation. |
| Phenol, polymer with formaldehyde, glycidyl ether | Eye Irritation - Category 2<br>No data |
| Poly[oxy(methyl-1,2-ethanediyl)], α-(2-oxiranylmethyl)-ω-(2-oxiranylmethoxy)- | Skin Corrosion/Irritation - Category 2<br>No data |
| **Respiratory or skin sensitization** | Skin sensitization - Category 1: May cause an allergic skin reaction. |
| Phenol, polymer with formaldehyde, glycidyl ether | Skin sensitization - Category 1<br>Allergic contact dermatitis (Pontén, A et al, 1999) |
| Poly[oxy(methyl-1,2-ethanediyl)], α-(2-oxiranylmethyl)-ω-(2-oxiranylmethoxy)- | Skin Corrosion/Irritation - Category 2<br>No data |
| **Germ cell mutagenicity** | Based upon the available data, the classification criteria are not met. |
| **Carcinogenicity** | Based upon the available data, the classification criteria are not met. |
| Quartz | Carcinogenicity, Category 1A<br>IARC Classification: Group 1. Carcinogenic to humans. |
| Talc | IARC Classification: Group 1. Carcinogenic to humans. (Contains: Asbestos fibres). Group 3. Not classifiable as to its carcinogenicity to humans. (Not containing: Asbestos fibres). |
| **Reproductive toxicity** | Based upon the available data, the classification criteria are not met. |
| **STOT - single exposure** | Based upon the available data, the classification criteria are not met. |
| **STOT - repeated exposure** | Based upon the available data, the classification criteria are not met. |
| Quartz | Prolonged and/or massive exposure to fine fraction crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of crystalline silica. (Ziskind et al., 1976; IARC, 1987) |
| **Aspiration hazard** | Based upon the available data, the classification criteria are not met. |
| **Other information** | None known. |

## SECTION 12: ECOLOGICAL INFORMATION

| | |
|---|---|
| **Toxicity** | Aquatic toxicity, Chronic - Category 2; Toxic to aquatic life with long lasting effects.<br>Estimated Mixture LC50 > 1 to ≤ 10 mg/l. (Fish) |
| Phenol, polymer with formaldehyde, glycidyl ether | Aquatic toxicity, Chronic - Category 2<br>Acute: EC50 1.6 mg/l (48 hour) (Daphnia magna) (Wyness LE et al, 1993)<br>Chronic: No data |
| **Persistence and degradability** | No data for the mixture as a whole. |
| **Bioaccumulative potential** | No data for the mixture as a whole. |
| **Mobility in soil** | The product is predicted to have low mobility in soil. Partly soluble in water. |

| | |
|---|---|
| **Other adverse effects** | None known. |

## SECTION 13: DISPOSAL CONSIDERATIONS

| | |
|---|---|
| **Waste treatment methods** | Dispose of this material and its container as hazardous waste. Send after pre-treatment to a appropriate hazardous waste incinerator facility according to legislation. Dispose of contents in accordance with local, state or national legislation. |

## SECTION 14: TRANSPORT INFORMATION

| | | ADR/RID | IMDG | IATA/ICAO |
|---|---|---|---|---|
| **14.1** | **UN number** | UN 3082 | UN 3082 | UN 3082 |
| **14.2** | **UN proper shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID (CONTAINS, Phenol, polymer with formaldehyde, glycidyl ether) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID (CONTAINS, Phenol, polymer with formaldehyde, glycidyl ether) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID (CONTAINS, Phenol, polymer with formaldehyde, glycidyl ether) |
| **14.3** | **Transport hazard class(es)** | 9 | 9 | 9 |
| **14.4** | **Packing group** | III | III | III |
| **14.5** | **Environmental hazards** | Environmentally hazardous substance. | Classified as a Marine Pollutant. | Environmentally hazardous substance. |
| **14.6** | **Special precautions for user** | See Section: 2 | | |
| **14.7** | **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** | Not applicable | | |

## SECTION 15: REGULATORY INFORMATION

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

**National regulations**

| | |
|---|---|
| CEPA, Domestic Substances List | Phenol, polymer with formaldehyde, glycidyl ether: Yes<br>Poly[oxy(methyl-1,2-ethanediyl)], α-(2-oxiranylmethyl)-ω-(2-oxiranylmethoxy)-: Yes<br>Talc: Yes<br>Quartz: Yes |
| CEPA, Priority Substances List | All chemicals are not listed |
| CEPA, List of Toxic Substances (Schedule 1) | All chemicals are not listed |
| CEPA, National Pollutant Release Inventory | All chemicals are not listed |
| CEPA, Environmental Emergency Regulations | All chemicals are not listed |

**Non-Regional**

| | |
|---|---|
| IARC Monographs**,** List of Classifications | Talc: Group 1 (Containing: Asbestos fibres), Group 3 (Not containing: Asbestos fibres).<br>Quartz: Group 1 |

## SECTION 16: OTHER INFORMATION

**The following sections contain revisions or new statements:** Not applicable – V1.0

Date of First Issue: **20 April 2018**
Date of Issue: **20 April 2018**

**References:**

Existing Safety Data Sheet (SDS).

EU: Existing ECHA registration(s) for Talc (CAS No. 14807-96-6)., and the Classification and Labelling Inventory for Phenol, polymer with formaldehyde, glycidyl ether (CAS No. 28064-14-4), Poly[oxy(methyl-1,2-ethanediyl)], α-(2-oxiranylmethyl)-ω-(2-oxiranylmethoxy)- (CAS No. 26142-30-3), Quartz (CAS No. 14808-60-7).

**Literature References:**

1. Pontén, A. and Bruze, M. (1999), Occupational allergic contact dermatitis from epoxy resins based on bisphenol F. Contact Dermatitis, 41: 235. doi:10.1111/j.1600-0536.1999.tb06149.x
2. Ziskind M, Jones RN, Weill H, 1976, Silicosis. American review of respiratory disease, 113:643–665.
3. Wyness LE, Cheeman H, Lad DD and Baldwin MK (1993), EPIKOTE 862: Acute toxicity to Oncorhunchus mykiss, Daphnia magna and Selenastrum capricornutum; SBGR.92.237

**LEGEND**

LTEL: Long Term Exposure Limit
STEL: Short Term Exposure Limit
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
PBT: PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
IARC: International Agency for Research on Cancer
NTP: National Toxicology Program
OSHA = Occupational Safety and Health Administration
NIOSHTIC: National Institute for Occupational Safety and Health Technical Information Center

ACGIH: American conference of Governmental Industrial Hygiene
BEI: Biological Exposure Indices (ACGIH)
TLV: Threshold Limit Value (ACGIH)
TWA: Time Weighted Average
VOC: Volatile Organic Compound
EU: European Union
CEPA (Canadian Environmental Protection Act)

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