SAFETY DATA SHEET

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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 A
Other Means of Identification	None

Recommended use and restrictions

Recommended use	Epoxy / Urethane Curative
Restrictions on use	Anything other than the above.

Initial Supplier Identifier

Company Identification	VISHAY MEASUREMENTS GROUP, INC.
Telephone	Post Office Box 27777 Raleigh, NC 27611 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 1
Eye damage, Category 1
Carcinogenicity, Category 1
Aquatic toxicity, Chronic - Category 3

Label elements

Hazard Pictogram(s)

Signal Word(s): DANGER

Hazard Statement(s):
Causes severe skin burns and eye damage.
May cause cancer.
Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe vapour.
Wear protective gloves/protective clothing/eye protection/face protection.
Contaminated work clothing should not be allowed out of the workplace.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation or rash occurs: Get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Immediately call a POISON CENTER/doctor.
Store locked up.
Dispose of contents in accordance with local, state or national legislation.

Other hazards 1 percent of the mixture consists of ingredient(s) of unknown toxicity

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
Polysulfid, polymer /1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis [2-chloroethane] and sodium sulfide (Na2(Sx)), reduced Propane	68611-50-7	60 - 80	disodium 1,2,3-trichloropropane 1-chloro-2-[(2-chloroethoxy)methoxy]ethane sulfanediide	Aquatic toxicity, Chronic - Category 3
Talc*	14807-96-6	10 - 30	Talc; trimagnesium	Not classified as hazardous for supply.
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	3 - 7	Phenol, 2,4,6-tris[(dimethylamino)methyl]-	Acute toxicity (Oral) - Category 4 Skin corrosion/irritation - Category 1C Eye damage, Category 1
Quartz*	14808-60-7	0.1 - 1	Bentoniitti; crystalline silica; Silicon Dioxide	Specific target organ toxicity — single exposure - Category 3 (Respiratory tract) Specific target organ toxicity — repeated exposure - Category 1 (Lungs) 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 all contact. Apply artificial respiration if necessary (do not employ mouth-to-mouth method). It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Inhalation: IF INHALED: 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. Treatment by an ophthalmologist due to possible caustic burn of the eyes may be required.

Ingestion: IF SWALLOWED: Rinse mouth with water (do not swallow). Do NOT induce vomiting. If vomiting occurs turn patient on side. Do not give milk or alcoholic

	beverages. 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 severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. May cause cancer.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically. The onset of toxic effects may be delayed for hours, keep affected person under medical observation.

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, Nitrogen oxides and Ammonia may be formed. May give off noxious and toxic fumes in a fire.
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 all contact. **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. Transfer to a container for disposal or recovery. **Small spillages:** Allow small spillages to evaporate provided there is adequate ventilation. **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 all contact. 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. Organic acids (e.g. acetic acid, citric acid), Mineral acids. Sodium hypochlorite.
Specific end use(s)	See Section: 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

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.
mppcf: Millions of particles per cubic foot of air
* Value is for particulate matter containing 0% Asbestos

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

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Talc	14807-96-6	-	2*	-	-	WEL
		-	0.1 f/cc^	-	-	
		-	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 all contact. 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:
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. Suitable materials: Butyl rubber, Nitrile rubber, Neoprene.

Body protection:
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	Red Liquid
Odour	Mercaptan odor
Odour threshold	Not established
pH	Not established
Melting point/freezing point	Not established

Initial boiling point and boiling range	Not established
Flash point	200 ℃ [Closed cup]
Evaporation rate (Water = 1)	Not established
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	Not applicable
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	Moderate viscosity
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	Keep away from heat and direct sunlight.
Incompatible materials	Strong oxidising agents, Acids and Bases. Organic acids (e.g. acetic acid, citric acid), Mineral acids. Sodium hypochlorite
Hazardous decomposition product(s)	Combustion products: Carbon monoxide, Carbon dioxide, Nitrogen oxides and Ammonia may be formed. May give off noxious and toxic fumes in a fire.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity - Ingestion	Based upon the available data, the classification criteria are not met. 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. 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. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day.
Skin corrosion/irritation	Skin corrosion/irritation, Category 1; Causes severe skin burns and eye damage.
2,4,6-tris(dimethylaminomethyl)phenol	Skin corrosion/irritation, Category 1 Corrosive (rabbit) (OECD 404)
Serious eye damage/irritation	Eye damage, Category 1; Causes serious eye damage.
2,4,6-tris(dimethylaminomethyl)phenol	Eye damage, Category 1 Corrosive (rabbit) (U.S. CPSC Guideline - CFR 16)
Respiratory or skin sensitization	Based upon the available data, the classification criteria are not met.
Germ cell mutagenicity	Based upon the available data, the classification criteria are not met.
Carcinogenicity	Carcinogenicity, Category 1A; May cause cancer.
Quartz	Carcinogenicity, Category 1A 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 3; Harmful to aquatic life with long lasting effects. Estimated Mixture LC50 > 10 ≤ 100 mg/l. (Fish)
Polysulfid, polymer /1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis[2-chloroethane] and sodium sulfide (Na2(Sx)), reduced Propane	Aquatic toxicity, Chronic - Category 3 Acute: EC50 10 mg/l (48 hour) (Daphnia magna) (Rohm and Haas, 1994) 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 an 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 1760	UN 1760	UN 1760
14.2	**UN proper shipping name**	CORROSIVE LIQUID, N.O.S. (CONTAINS, 2,4,6-tris(dimethylaminomethyl) phenol)	CORROSIVE LIQUID, N.O.S. (CONTAINS, 2,4,6-tris(dimethylaminomethyl) phenol)	CORROSIVE LIQUID, N.O.S. (CONTAINS, 2,4,6-tris(dimethylaminomethyl) phenol)
14.3	**Transport hazard class(es)**	8	8	8
14.4	**Packing group**	III	III	III
14.5	**Environmental hazards**	Not classified	Not classified / Not classified as a Marine Pollutant.	Not classified
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	Polysulfid, polymer /1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis[2-chloroethane] and sodium sulfide (Na2(Sx)), reduced Propane: Yes Talc: Yes 2,4,6-tris(dimethylaminomethyl)phenol: Yes Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica: Yes 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). Quartz: Group 1

SECTION 16: OTHER INFORMATION

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

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References:
Existing Safety Data Sheet (SDS).
EU: Harmonised Classification(s) for 2,4,6-tris(dimethylaminomethyl)phenol (CAS No. 90-72-2). Existing ECHA registration(s) for Talc (CAS No. 14807-96-6), 2,4,6-tris(dimethylaminomethyl)phenol (CAS No. 90-72-2), and the Classification and Labelling Inventory for Polysulfid, polymer /1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis[2-chloroethane] and sodium sulfide (Na2(Sx)), reduced Propane (CAS No. 68611-50-7), Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica (CAS No. 68909-20-6), Quartz (CAS No. 14808-60-7).

Literature References:

1. Ziskind M, Jones RN, Weill H, 1976, Silicosis. American review of respiratory disease, 113:643–665.
2. Rohm & Haas, 1994, INITIAL SUBMISSION: CERTIFICATE OF AQUATIC TOXICITY TEST RESULTS FOR LP-3 LIQUID POLYSULPHIDE POLYMER IN DAPHNIA MAGNA, WITH COVER LETTER DATED 04/12/01

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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