Revision Number: 001.1

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1. IDENTIFICATION

Product name: **CANUSA SCAR-GUARD GY 6"X30'**
IDH number: 3036107
Product type/ Recommended use: Pre-impregnated fabric/fiber
Restriction of Use: None identified
Region: Canada
Company address:
Henkel Canada Corporation
Meadowpine Boulevard 2515
Mississauga, Ontario L5N 6C3

Contact information:
Telephone: +1 (905) 814-6511
MEDICAL EMERGENCY Phone: Poison Control Center
1-877-671-4608 (toll free) or 1-303-592-1711
TRANSPORT EMERGENCY Phone: CHEMTREC
1-800-424-9300 (toll free) or 1-703-527-3887
MEDICAL EMERGENCY Phone: Poison Control Center
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1-800-424-9300 (toll free) or 1-703-527-3887
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER:

H315 - CAUSES SKIN IRRITATION.
H317 - MAY CAUSE AN ALLERGIC SKIN REACTION.
H319 - CAUSES SERIOUS EYE IRRITATION.
H332 - HARMFUL IF INHALED.
H334 - MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED.
H335 - MAY CAUSE RESPIRATORY IRRITATION.
H372 - CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
ACUTE TOXICITY INHALATION	4
SKIN IRRITATION	2
EYE IRRITATION	2A
RESPIRATORY SENSITIZATION	1
SKIN SENSITIZATION	1
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	1

PICTOGRAM(S)

Precautionary Statements

Prevention: P260 - Do not breathe dust.

	P264 - Wash affected area thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves, eye protection, and face protection. P284 - [In case of inadequate ventilation] wear respiratory protection.
Response:	P302+P352 - IF ON SKIN: Wash with plenty of water. P304+P340+P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313 - If skin irritation or rash occurs: Get medical attention. P337+P313 - If eye irritation persists: Get medical attention. P342+P311 - If experiencing respiratory symptoms: Call a poison center or physician. P362+P364 - Take off contaminated clothing and wash it before reuse.
Storage:	P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up.
Disposal:	P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Other hazards Not available.

Classification complies with Canadian Hazardous Products Regulations and is consistent with the provision of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Weight %*
Glass, oxide, chemicals	65997-17-3	30 - 60
Isocyanic acid, polymethylenepolyphenylene ester, polymer with a-hydro-w-hydroxypoly[oxy(methyl-1,2-ethanediyl)]	53862-89-8	10 - 30
Methylenebis(phenylisocyanate)	101-68-8	5 - 10
Polymeric diphenylmethane diisocyanate	9016-87-9	5 - 10
o-(p-Isocyanatobenzyl)phenyl isocyanate	5873-54-1	1 - 5
Siloxanes and Silicones, di-Me, reaction products with silica	67762-90-7	0.1 - 1
Polypropylene glycol	25322-69-4	0.1 - 1
Titanium dioxide	13463-67-7	0.1 - 1

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

First Aid Measures by likely routes of exposure

Inhalation:	If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Move to fresh air. If symptoms persist, seek medical advice. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Extreme asthmatic reactions can be life threatening.
Skin contact:	Remove contaminated clothing and shoes. Wipe off paste with paper towel or cloth. Rinse with running water and soap. Wash contaminated clothing before reuse. Thoroughly clean shoes before reuse. Discard any shoes or clothing items that cannot be decontaminated. If symptoms develop and persist, get medical attention.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention immediately.
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention immediately.
Most important symptoms and effects (acute and delayed):	The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information.
Indication of any immediate medical attention / special treatment needed:	Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or sensitization should be excluded from working with isocyanates.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Use extinguishing measures appropriate to local circumstances and the surrounding environment. Foam, dry chemical or carbon dioxide. Water may be an ineffective extinguishing medium. Do not use high volume water jet.
Improper extinguishing agents:	Not available.
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Water may be unsuitable as an extinguishing media, but may be helpful in keeping adjacent containers cool. Keep unnecessary personnel away.
Unusual fire or explosion hazards:	At higher temperatures isocyanate may be released. Sealed containers at elevated temperatures or contaminated with water may rupture explosively. In case of fire, keep containers cool with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products:	Irritating and toxic gases or fumes may be released during a fire. Isocyanate vapors. Oxides of carbon. Oxides of nitrogen. Hydrogen cyanide.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Do not empty into drains / surface water / ground water.

Clean-up methods:

Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed. For Minor Spills or Leaks: Cover spill area with suitable absorbent material. Saturate absorbent material with neutralization solution and mix. Wait 15 minutes. Collect material in open-head metal containers. Repeat applications of decontamination solution with scrubbing, followed by absorbent until surface is decontaminated. Check for surface contamination using suitable test kit. Apply lid loosely and allow containers to vent for 72 hours to let carbon dioxide (CO_2) escape. Large quantities may be pumped into closed, but not sealed containers for disposal. Spilled material will solidify. Avoid dust formation.

7. HANDLING AND STORAGE

Handling:

Use only in well-ventilated areas. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Wear suitable protective clothing, gloves and eye/face protection. Refer to Section 8. Protect from moisture.

Storage:

Do not let moisture contaminate this material. Product reacts with water to release carbon dioxide, which could build up pressure in closed containers and lead to bursting. Do not reseal if moisture contamination is suspected. Protect from direct sunlight. Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Glass, oxide, chemicals	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None
Methylenebis(phenylisocyanate)	0.005 ppm TWA	0.02 ppm (0.2 mg/m3) Ceiling	None	None
Polymeric diphenylmethane diisocyanate	0.005 ppm TWA	None	None	None
o-(p-Isocyanatobenzyl)phenyl isocyanate	0.005 ppm TWA	None	None	None
Titanium dioxide	0.2 mg/m3 TWA Respirable nanoscale particles 2.5 mg/m3 TWA Respirable finescale particles	15 mg/m3 PEL Total dust. 15 MPPCF TWA Respirable fraction. 15 mg/m3 TWA Total dust. 50 MPPCF TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None

Engineering controls:	Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits. Air monitoring: Monitoring of airborne isocyanates in the breathing zone of individuals should become part of the overall employee exposure characterization program. Medical Surveillance: Medical supervision of all employees who handle or come in contact with isocyanates is recommended. Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or sensitization should be excluded from working with isocyanates. Once a person is diagnosed as sensitized to an isocyanate, no further exposure can be permitted.
Respiratory protection:	A positive pressure, supplied-air respirator or a self-contained breathing apparatus is recommended when: airborne concentrations of isocyanate are known to exceed 0.005 ppm; operations are performed in a confined space or area with limited ventilation; material is heated or sprayed. Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
Eye/face protection:	Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Safety showers and eye wash stations should be available.
Skin protection:	Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid
Color:	White
Odor:	Pungent
Odor threshold:	Not available.
pH:	Not applicable, Product is non-soluble (in water).
Vapor pressure:	Not available.
Boiling point/range:	Not available.
Melting point/ range:	Not available.
Density/Relative density:	2.6 - 2.7 at 20 °C (68°F)
Relative vapor density:	Not available.
Flash point:	188 °C (370.4 °F)
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not available.
Flammability:	Not applicable
Evaporation rate:	Not available.
Solubility:	Not soluble Water
Partition coefficient n-octanol/water (logarithmic value):	Not available.
VOC content:	Not available.
Dynamic viscosity:	Not available.
Kinematic viscosity:	Not available.
Particle characteristics:	Not available.
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.
Hazardous reactions:	Exothermic. Polymerization may occur at elevated temperature or in the presence of incompatible materials.
Hazardous decomposition products:	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Hydrogen cyanide. Isocyanate vapors Irritating and toxic gases or fumes may be released during a fire.
Incompatible materials:	Water. Moisture. Humid air and/or water will produce carbon dioxide which will pressurize the container. Amines. Alcohols. Strong acids and strong bases.
Reactivity:	Not available.
Conditions to avoid:	Avoid moisture. Contamination with water. Extremes of temperature and direct sunlight. Container can be pressurised by carbon dioxide due to reaction with humid air and/or water. Protect from direct sunlight. Do not freeze.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure:	Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

Inhalation: May cause respiratory tract irritation. This product may cause sensitization by inhalation and skin contact. Overexposure to isocyanates may cause burning sensation of respiratory tract, cough, shallow breathing, burning sensation, tightness in chest, reduced lung function. As a result of previous repeated overexposures or a single large dose, certain individuals will develop isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the TLV. Chronic overexposure to isocyanates has been reported to cause lung damage.

Skin contact: Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitisation of susceptible persons. Isocyanates react with skin protein and moisture and can cause irritation which may include the following symptoms: reddening, swelling, rash, scaling or blistering.

Eye contact: Liquid or vapor can cause moderate to severe irritation. Symptoms can include irritation, redness, scratching of the cornea, and tearing. Conjunctivitis.

Ingestion: Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Not expected under normal conditions of use.

Hazardous Component(s)	LD50s and LC50s
Glass, oxide, chemicals	None
Isocyanic acid, polymethylenepolyphenylene ester, polymer with a-hydro-w-hydroxypoly[oxy(methyl-1,2-ethanediyl)]	None
Methylenebis(phenylisocyanate)	None
Polymeric diphenylmethane diisocyanate	None
o-(p-Isocyanatobenzyl)phenyl isocyanate	Inhalation LC50 (Rat, 4 h) = 645 mg/m3 Inhalation LC50 (Rat, 4 h) = 0.49 mg/l Inhalation LC50 (Rat, 4 h) = 310 mg/m3 Inhalation LC50 (Rat, 4 h) = 387 mg/m3
Siloxanes and Silicones, di-Me, reaction products with silica	None
Polypropylene glycol	Inhalation LC50 (Rat, 4 h) = > 2.34 mg/l
Titanium dioxide	Inhalation LC50 (Rat, 4 h) = > 6.82 mg/l Inhalation LC50 (Rat, 4 h) = > 2.28 mg/l Inhalation LC50 (Rat, 4 h) = > 3.56 mg/l

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Glass, oxide, chemicals		Allergen	Respiratory
Isocyanic acid, polymethylenepolyphenylene ester, polymer with a-hydro-w-hydroxypoly[oxy(methyl-1,2-ethanediyl)]			
Methylenebis(phenylisocyanate)	Irritant	Allergen	Respiratory
Polymeric diphenylmethane diisocyanate	Irritant	Allergen	Kidney Liver Respiratory
o-(p-Isocyanatobenzyl)phenyl isocyanate	Irritant	Allergen	Respiratory
Siloxanes and Silicones, di-Me, reaction products with silica			
Polypropylene glycol			
Titanium dioxide	Irritant		Respiratory Some evidence of carcinogenicity

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Glass, oxide, chemicals	No	No	No
Isocyanic acid, polymethylenepolyphenylene ester, polymer with a-hydro-w-hydroxypoly[oxy(methyl-1,2-ethanediyl)]	No	No	No
Methylenebis(phenylisocyanate)	No	No	No
Polymeric diphenylmethane diisocyanate	No	No	No
o-(p-Isocyanatobenzyl)phenyl isocyanate	No	No	No

Siloxanes and Silicones, di-Me, reaction products with silica	No	No	No
Polypropylene glycol	No	No	No
Titanium dioxide	No	Group 2B	No

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

Canada Transportation of Dangerous Goods - Ground

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

15. REGULATORY INFORMATION

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 3, 4, 7, 8, 9, 11

Prepared by: Product Safety and Regulatory Affairs

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