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safety data sheet
100% SILICONE COATING

IMPER GUARD

1. Identification

Product identifier	100% SILICONE COATING
Product code	IG8000
Other means of identification	Roof coating.
Recommended use of the chemical and restrictions on use	Reflective roof coating. For exterior use only. Do not use indoors.
Distributor	IMPER GUARD 114, 2e Ave, Portneuf, Québec Canada G0A 2Y0 Tel. 418-285-0090 https://imperguard.com/
Emergency phone number	Imper Guard: 418-285-0090 Monday to Friday, 8:00 AM to 5:00 PM Quebec Poison Center: 1-800-463-5060 Canada Poison Center: 1-844-764-7669

2. Hazard identification

Summary	Avoid contact with the skin, eyes and clothing. Do not inhale vapors, mists or spray. Do not ingest. If medical advice is needed, have this SDS or label at hand. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved.

WHMIS/GHS/OSHA HCS



Acute toxicity, dermal (Category 4)
Acute toxicity, inhalation (Category 4)
Skin sensitizer (Category 1)
Carcinogenicity (Category 1A)
Reproductive toxicity (Category 2)
Specific target organ toxicity, repeated exposure (Category 1)

DANGER
H350: May cause cancer
H372: Causes damage to organs through prolonged or repeated exposure
H312 + H332: Harmful in contact with skin or if inhaled
H317: May cause an allergic skin reaction
H361: Suspected of damaging fertility or the unborn child
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe mist, vapours and spray.
P264: Wash face, hands and any exposed skin 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, protective clothing, eye protection and face protection.
P308+P313: IF exposed or concerned: Get medical attention.
P302+P352: IF ON SKIN: Wash with plenty of water and soap.
P333+P313: If skin irritation or rash occurs: Get medical attention.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312: Call a POISON CENTER or doctor if you feel unwell.
P362+P364: Take off contaminated clothing and wash it before reuse.
P405: Store locked up.
P501: Dispose of contents and container to an approved waste disposal plant.

3. Composition/information on ingredients

Chemical name	Common name and synonyms	CAS	Weight % content
Polydimethylsiloxanes	PDMS	PDMS	45 - 60 %
Silica, crystalline	Silicon dioxide, crystalline	Crystalline SiO2	25 - 45 %
2-Butanone, O,O',O''-(methylsilylidyne)trioxime	Methyltris(methylethylketoxime)silane, MTMES	22984-54-9	0 - 10 %
1,2-Ethanediamine, N-[3-(trimethoxysilyl)propyl]-	N-[3-(trimethoxysilyl)propyl]ethylenediamine	1760-24-3	0 - 5 %
Titanium dioxide	Titanium white	13463-67-7	0 - 10 %
Octamethylcyclotetrasiloxane	Siloxane D4	556-67-2	0 - 10 %
Note: The manufacturer withholds the actual concentration range of the ingredients as a trade secret.			

4. First-aid measures

Inhalation	Move person to fresh air. If breathing is difficult, give oxygen by trained personnel. If not breathing, give artificial respiration. If a problem develops or persists, seek medical attention.
Skin contact	Wash skin with warm water and mild soap for at least 15 minutes. Remove contaminated clothing and wash before reuse. If a problem develops or persists, seek medical attention.
Eye contact	Flush with water for at least 15 minutes. Remove contact lenses if easy to do. Lift eyelids to rinse properly. If a problem develops or persists, seek medical attention.
Ingestion	DO NOT induce vomiting, unless recommended by medical personnel. Never give anything by mouth if victim is unconscious or convulsing. If victim is conscious wash out mouth with plenty of water. If spontaneous vomiting occurs, keep head below hip level to prevent aspiration into the lungs. Seek medical attention or contact a Poison Centre immediately.
Other	No information available.
Symptoms	May cause slight irritation to skin. May cause an allergic reaction of the skin.
Notes to the physician	Treat according to person's condition and specifics of exposure. If gastric lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. Fire-fighting measures

Suitable extinguishing media	Use an extinguishing agent appropriate for the surrounding fire.
Unsuitable extinguishing media	DO NOT use water.
Specific hazards arising from the chemical	May release irritating, toxic and/or corrosive during fire or when heated to decomposition.
Hazardous combustion products	Carbon oxides (COx), silicon oxides (SiOx), nitrogen oxides (NOx).
Special protective equipment	Firefighters must wear self contained breathing apparatus with full face mask. Firefighting suit may not be efficient against chemicals.
Special protective actions for fire-fighters	Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Do not touch damaged containers or spilled material. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet.
Environmental precautions	Prevent product from entering drains and release to the environment. For a large spill, consult the Department of Environment or the relevant authorities.
Methods and materials for containment and cleaning up	Ventilate the area well. Stop leak, if it's possible to do so without risk. Absorb with inert material (soil, sand, vermiculite) and place in an appropriate waste disposal clearly identified. Finish cleaning the contaminated surface by rinsing with water. Dispose via a licensed waste disposal contractor.

7. Handling and storage

Precautions for safe handling	Use outdoors only! Avoid contact with the skin, eyes and clothing. Do not inhale vapors, mists or spray. Wear eye protection, gloves, respiratory protection and other protective clothing that are adapted to the task being performed and the risks involved. Keep containers tightly closed when not in use. Do not eat, do not drink and do not smoke during use. After use, wash hands with soap and water. Wash contaminated clothing before reuse.
Conditions for safe storage, including any incompatibilities	Store tightly closed and in properly labelled containers in a cool, dry and well ventilated place. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store away from direct sunlight. Keep away from freezing.
Storage temperature	5 to 35°C (41 to 95°F)

8. Exposure controls/personal protection

Immediately Dangerous to Life or Health	Crystalline silica: 50 mg/m3. Titanium dioxide: 5000 mg/m3.

Silica, crystalline	TWA (8h)	Respirable Dust	0.025 mg/m^3	ACGIH , BC
		Respirable Dust	0.05 mg/m^3	ON , RSST
Octamethylcyclotetrasiloxane	TWA (8h)	10 ppm		US AIHA
Titanium dioxide	TWA (8h)	Total Dust	10 mg/m^3	ACGIH , BC, ON, RSST

Appropriate engineering controls	Provide sufficient mechanical ventilation (general or local exhaust) to keep the airborne concentrations of vapours, mists, aerosols or dust below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation.
Individual protection measures	
Eye	Wear safety glasses. If there is a risk of contact with eyes, wear chemical splash goggles.
Hands	Wear nitrile or neoprene gloves. Before using, user should confirm impermeability. Discard gloves with tears, pinholes, or signs of wear. Gloves must only be worn on clean hands. Wash gloves with water before removing them. After using gloves, hands should be washed and dried thoroughly.
Skin	Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Wear normal work clothing covering arms and legs as required by employer code.
Respiratory	Where the conditions in the workplace require a respirator, it is necessary to follow a respiratory protection program. Moreover, respiratory protection equipment (RPE) must be selected, fitted, maintained and inspected in accordance with regulations and standard 29 CFR 1910.134 (OSHA), ANSI Z88.2 or CSA Z 94.11 (Canada) and approved by NIOSH/MSHA. During sanding operations (release of respirable crystalline silica), use mask respirator with organic vapors cartridges and fitted with a particulate N100, R100, or P100 filter.
Feet	


Safety glasses


Nitrile gloves

9. Physical and chemical properties

Physical state	Liquid (Opaque)	**Flammability**	Non-flammable
Colour	Various	**Flammability limits**	N/Ap.
Odour	Peppermint	**Flash point**	>60°C (140°F)
Odour threshold	N/Ap.	**Auto-ignition temperature**	N/Ap.
pH	7	**Sensibility to electrostatic charges**	No
Melting point	N/Av.	**Sensibility to sparks and/or friction**	No
Freezing point	N/Av.	**Vapour density**	Und. (Air = 1)
Boiling point	>100°C (212°F)	**Relative density**	1.29 kg/L (Water = 1)
Solubility	Insoluble in water	**Partition coefficient n-octanol/water**	Und.
Evaporation rate	N/Av.	**Decomposition temperature**	N/Av.
Vapour pressure	Und.	**Viscosity**	N/Av.
Percent Wt. Volatile	N/Av.	**Molecular mass**	N/Ap.

VOC (g/L)	<50 g/L	**% Volume Volatile (VOC)**	N/Av.
VOC (lb/gal)	N/Av.	**% Wt. Volatile (VOC)**	N/Av.
Particle characteristics	Particle size: N/Ap.		

N/Av.: Not Available N/Ap.: Not Applicable Und.: Undetermined N/E: Not Established

10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions (including polymerizations)	A dangerous reaction will not occur.
Conditions to avoid	Avoid extreme temperatures. Avoid exposure to sunlight.
Incompatible materials	No incompatible substance known.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Numerical measures of toxicity

Polydimethylsiloxanes	Ingestion	>15400 mg/kg	Rat	LD50
	Inhalation	>8750 mg/m^3	Rat	LC50
	Skin	>16 ml/kg	Rabbit	LD50
2-Butanone, O,O',O''-(methylsilylidyne)trioxime	Ingestion	2463 mg/kg	Rat	LD50
	Skin	>2000 mg/kg	Rat	LD50
Titanium dioxide	Ingestion	10000 mg/kg	Rat	LD50
	Inhalation	6.82 mg/l/4h	Rat	LC50
	Skin	10000 mg/kg	Rabbit	LD50
1,2-Ethanediamine, N-[3-(trimethoxysilyl)propyl]-	Ingestion	2295 mg/kg	Rat	LD50
	Inhalation	<1.49 mg/l/4h	Rat	LC50
		>2.44 mg/l/4h	Rat	LC50
	Skin	>2000 mg/kg	Rabbit	LD50
Octamethylcyclotetrasiloxane	Ingestion	>4800 mg/kg	Rat	LD50
		1700 mg/kg	Mouse	LD50
	Inhalation	36 mg/l/4h	Rat	LC50
	Skin	>2500 mg/kg	Rat	LD50

Likely routes of exposure: Skin, eyes, inhalation, ingestion.

Delayed, immediate and chronic effects

Eye contact: No data are available on the product itself.

Skin contact: Harmful in contact with skin. May cause slight irritation to skin.

Inhalation: Harmful by inhalation. Repeated or prolonged exposure to dust may cause silicosis or lung cancer.

Ingestion: No data are available on the product itself.

Respiratory or skin sensitization: Can cause allergic reactions in susceptible persons.

IARC/NTP Classification

Chemical name	IARC	NTP
Silica, crystalline	1	K
Titanium dioxide	2B	-

		IARC : 1- Carcinogenic; 2A- Probably carcinogenic; 2B- Possibly carcinogenic. NTP : K- Known to be carcinogens; R- Reasonably anticipated to be carcinogens.
	Carcinogenicity	May cause cancer by inhalation of dust. The risk of cancer depends on duration and level of exposure.
	Mutagenicity	Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause mutagenic effects.
	Reproductive toxicity	Suspected of damaging fertility or the unborn child.
	Specific target organ toxicity - single exposure	No target organ is listed.
	Specific target organ toxicity - repeated exposure	Lungs.
Interactive effects	No information available.	
Other information	The skin acute toxicity estimates (ATE) of the mixture was calculated to be greater than 1000 mg/kg but lower than 2000 mg/kg. This value is classified according to GHS: Acute toxicity, dermal (Category 4). The acute toxicity estimate (ATE) by inhalation of the mixture was calculated to be greater than 10 mg/L/4h but lower than 20 mg/L/4h. This value is classified according to GHS: Acute toxicity, inhalation (Category 4). The oral acute toxicity estimate (ATE) of the mixture was calculated to be greater than 2000 mg/kg. This value is not classified according to WHMIS 2015 and OSHA HCS 2012.	

12. Ecological information

Ecological toxicity	Fish - Pimephales promelas (fathead minnow)	LC50	>500 mg/L; 96 h (CAS no 13463-67-7)
	Aquatic invertebrates - Daphnia magna (water flea)	EC50	>1000 mg/L; 48 h (CAS no 13463-67-7)
	Fish - Danio rerio (Zebra fish)	LC50	597 mg/L; 96 h (CAS no 1760-24-3)
	Aquatic invertebrates - Daphnia magna (Water flea)	EC50	81 mg/L; 48 h (CAS no 1760-24-3)
	Algae - Pseudokirchneriella subcapitata (green algae)	EC50	8.8 mg/L; 72 h (CAS no 1760-24-3)
	Fish - Oncorhynchus mykiss (rainbow trout)	LC50	>0.022 mg/L; 96 h (CAS no 556-67-2)
	Aquatic invertebrates - Daphnia magna (water flea)	EC50	>0.015 mg/L; 48 h (CAS no 556-67-2)
	Aquatic plants - Raphidocelis subcapitata (micoralga)	EC50	>0.022 mg/L; 96 h (CAS no 556-67-2)
Persistence	No information available.		
Degradability	No information available.		
Bioaccumulative potential	No information available.		
Mobility in soil	No information available.		
Other adverse effects	This chemical does not deplete the ozone layer.		

13. Disposal considerations

Container 	Important! Prevent waste generation. Use in full. DO NOT dispose residue in sewers, streams or drinking water supply. Residues: Dispose via a licensed waste disposal contractor. Observe all federal, state/provincial and municipal regulations. If necessary consult the Department of Environment or the relevant authorities.

14. Transport information

UN Number	UN N/A
UN Proper Shipping Name	Not regulated by TDG (Canada) and 49 CFR DOT (USA).
Environmental hazards	Contains marine pollutant.
Special precautions for user	No additional information.
TDG - Transportation of Dangerous Goods (Canada & US DOT)	
Transport hazard class(es)	Not regulated
Packing group	Not regulated
2024 Emergency Response Guidebook	N/A
IMO/IMDG - International Maritime Transport	
Classification	Not regulated
IATA - International Air Transport Association	
Classification	Not regulated

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. In addition, if a domestic exemption exists, it is the responsibility of the shipper to define the application of it.

15. Regulatory information

CANADA

Chemical name	CAS	CEPA	DSL	NDSL	NPRI
Polydimethylsiloxanes	PDMS		X		
Silica, crystalline	Crystalline SiO2		X		
2-Butanone, O,O',O''-(methylsilylidyne)trioxime	22984-54-9		X		
1,2-Ethanediamine, N-[3-(trimethoxysilyl)propyl]-	1760-24-3		X		
Titanium dioxide	13463-67-7	X	X		
Octamethylcyclotetrasiloxane	556-67-2	X	X		

- CEPA: List of Toxic Substances Managed Under Canadian Environmental Protection Act
- DSL: Domestic Substances List Inventory
- NDSL: Non-Domestic Substances List Inventory
- NPRI: National Pollutant Release Inventory Substances

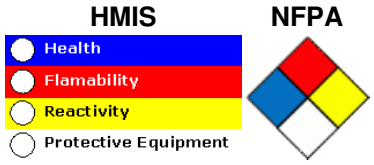
UNITED STATE OF AMERICA

Chemical name	CAS	TSCA	CER CLA	EPCRA 313	EPCRA 302/304	CAA 112(b) HON	CAA 112(b) HAP	CAA 112(r)	CWA 311	CWA Prio.
Polydimethylsiloxanes	PDMS	X								
Silica, crystalline	Crystalline SiO2	X								
2-Butanone, O,O',O''-(methylsilylidyne)trioxime	22984-54-9	X								
1,2-Ethanediamine, N-[3-(trimethoxysilyl)propyl]-	1760-24-3	X								
Titanium dioxide	13463-67-7	X								
Octamethylcyclotetrasiloxane	556-67-2	X								

- TSCA: Toxic Substance Control Act
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act list of hazardous substances
- EPCRA 313: Emergency Planning and Community Right-to-Know Act, Section 313 Toxic Chemicals
- EPCRA 302/304: Emergency Planning and Community Right-to-Know Act, Section 302/304 Extremely Hazardous Substances
- CAA 112(b) HON: Clean Air Act - Hazardous Organic National Emission Standard for Hazardous Air Pollutant
- CAA 112(b) HAP: Clean Air Act - Hazardous Air Pollutants lists pollutants
- CAA 112(r): Clean Air Act - Regulated Chemicals for Accidental Release Prevention
- CWA 311: Clean Water Act - List of Hazardous Substances
- CWA Priority: Clean Water Act - Priority Pollutant list

California Proposition 65

Chemical name	CAS	Cancer	Reproductive and Developmental Toxicity
Silica, crystalline	Crystalline SiO2	X	
Titanium dioxide	13463-67-7	X	

Other regulations	

16. Other information

Date (YYYY-MM-DD)	IMPER GUARD 2026-10-06
Version	02
Other information	- The hazard classification in this document (section 2) is taken from the manufacturer's original version. REFERENCES: - Service du répertoire toxicologique de la Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST), https://www.cnesst.gouv.qc.ca/en - The National Center for Biotechnology Information, National Institutes of Health (NIH), U.S. National Library of Medicine, https://pubchem.ncbi.nlm.nih.gov - European Chemical Agency ECHA, https://echa.europa.eu/information-on-chemicals DATE OF FIRST VERSION OF SDS: 2025-09-16. CHANGES MADE IN THE VERSION 02: sections 1, 2, 3, 5, 7, 8, 9, 10, 11, 12, 14, 15 and 16.

	ACGIH: American Conference of Governmental Industrial Hygienists AIHA: American Industrial Hygiene Association HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association OSHA: Occupational Safety and Health Administration (USA) NIOSH: National Institute for Occupational Safety and Health NTP: National Toxicology Program RSST: Règlement sur la santé et la sécurité du travail (Québec) GHS: Globally Harmonized System IARC: International Agency for Research on Cancer IDLH: Immediately Dangerous to Life or Health STEL: Short Term Exposure Limit (15 min) TWA: Time Weighted Averages WHMIS: Workplace Hazardous Materials Information System To the best of our knowledge, the information contained herein is accurate. However, neither Preventis System, nor the above named supplier, nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.