

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product identifier NO SKIDDING SLIP RESISTANT EPOXY SPRAY - GRAY
Version # 01
Issue date 07-24-2016
Supersedes date 07-06-2016
CAS # Mixture
Product code 11930G
Product use Slip resistant epoxy coating
Manufacturer information NO SKIDDING PRODUCTS, INC.
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Canada
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Information Telephone: (416)667-1788
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Supplier Not available.

2. Hazards Identification

Emergency overview DANGER
Flammable liquid - may release vapors that form flammable mixtures at or above the flash point.
CONTENTS UNDER PRESSURE.
Aerosol. Pressurized container may explode when exposed to heat or flame. Will be easily ignited by heat, spark or flames. Cancer hazard. Irritating to eyes and skin.
Teratogenic. Can cause adverse reproductive effects - such as birth defects, miscarriages, or infertility. This is a consumer care product that is safe for consumers when used according to the label directions. Like many consumer products, a small number of individuals may experience reactions such as redness, rash and / or swelling upon prolonged or repeated skin contact or eye contact.
Potential health effects
Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.
Eyes Contact with eyes may cause irritation. Avoid contact with eyes.
Skin May cause skin irritation. Avoid contact with the skin.
Inhalation May cause cancer by inhalation. Intentional misuse by concentrating and inhaling the product can be harmful or fatal. May cause irritation of respiratory tract. Prolonged inhalation may be harmful.
Ingestion Exposure by ingestion of an aerosol is unlikely. Irritating. May cause nausea, stomach pain and vomiting. Do not ingest.
Chronic effects Sterility. Pregnant women or women of child-bearing age should not be exposed to this product. Can cause adverse reproductive effects - such as birth defects, miscarriages, or infertility. May cause birth defects. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Signs and symptoms Birth defects. Sterility. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Potential environmental effects Components of this product are hazardous to aquatic life. May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Acetone	67-64-1	15 - 40
PROPANE	74-98-6	10 - 30
Toluene	108-88-3	10 - 30

Components	CAS #	Percent
Butane	106-97-8	7 - 13
XYLENE	1330-20-7	7 - 13
CLAY	1332-58-7	3 - 7
TITANIUM DIOXIDE	13463-67-7	3 - 7
Ethylbenzene	100-41-4	1 - 5

Composition comments Not applicable to consumer products.

4. First Aid Measures

First aid procedures

Inhalation

Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention, if needed.

Skin contact

Take off immediately all contaminated clothing. Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists. For minor skin contact, avoid spreading material on unaffected skin.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth thoroughly. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Notes to physician

In case of shortness of breath, give oxygen. Symptoms may be delayed.

General advice

In case of shortness of breath, give oxygen. If you feel unwell, seek medical advice (show the label where possible). Get medical attention if symptoms occur. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep victim under observation. Keep victim warm.

5. Fire Fighting Measures

Flammable properties

Flammable by WHMIS criteria. Heat may cause the containers to explode. Vapors may travel considerable distance to a source of ignition and flash back.

Extinguishing media

Suitable extinguishing media

Powder. Alcohol resistant foam. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Protection of firefighters

Specific hazards arising from the chemical

Fire may produce irritating, corrosive and/or toxic gases.

Protective equipment for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

Fire fighting equipment/instructions

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Some of these materials, if spilled, may evaporate leaving a flammable residue.

Explosion data

Sensitivity to static discharge

Not available.

Sensitivity to mechanical impact

Not available.

Hazardous combustion products

Not available.

6. Accidental Release Measures

Personal precautions	Consider initial downwind evacuation for at least 500 meters (1/3 mile). Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8 of the MSDS.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water.
Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable.
Methods for cleaning up	Should not be released into the environment. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Clean up in accordance with all applicable regulations. For waste disposal, see section 13 of the MSDS.
Other information	Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling	Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. When using do not eat or drink. Do not use in areas without adequate ventilation. Wash thoroughly after handling. Avoid release to the environment.
Storage	Level 3 Aerosol. Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Keep out of the reach of children. Keep in an area equipped with sprinklers. Use care in handling/storage. Store away from incompatible materials (see Section 10 of the MSDS).

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL	750 ppm	Respirable fraction.
	TWA	500 ppm	
Butane (CAS 106-97-8)	STEL	1000 ppm	
CLAY (CAS 1332-58-7)	TWA	2 mg/m3	
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
TITANIUM DIOXIDE (CAS 13463-67-7)	TWA	10 mg/m3	
Toluene (CAS 108-88-3)	TWA	20 ppm	
XYLENE (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL	1800 mg/m3	Respirable.
	TWA	750 ppm	
		1200 mg/m3	
		500 ppm	
Butane (CAS 106-97-8)	TWA	1000 ppm	
CLAY (CAS 1332-58-7)	TWA	2 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	543 mg/m3	
		125 ppm	

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value	Form
	TWA	434 mg/m3 100 ppm	
PROPANE (CAS 74-98-6)	TWA	1000 ppm	
TITANIUM DIOXIDE (CAS 13463-67-7)	TWA	10 mg/m3	
Toluene (CAS 108-88-3)	TWA	188 mg/m3 50 ppm	
XYLENE (CAS 1330-20-7)	STEL	651 mg/m3 150 ppm	
	TWA	434 mg/m3 100 ppm	

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 ppm	
Butane (CAS 106-97-8)	STEL	750 ppm	
	TWA	600 ppm	
CLAY (CAS 1332-58-7)	TWA	2 mg/m3	Respirable.
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
PROPANE (CAS 74-98-6)	TWA	1000 ppm	
TITANIUM DIOXIDE (CAS 13463-67-7)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.
Toluene (CAS 108-88-3)	TWA	20 ppm	
XYLENE (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
Butane (CAS 106-97-8)	STEL	1000 ppm	
CLAY (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
TITANIUM DIOXIDE (CAS 13463-67-7)	TWA	10 mg/m3	
Toluene (CAS 108-88-3)	TWA	20 ppm	
XYLENE (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
Butane (CAS 106-97-8)	TWA	800 ppm	
CLAY (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
Ethylbenzene (CAS 100-41-4)	STEL	125 ppm	
	TWA	100 ppm	
PROPANE (CAS 74-98-6)	TWA	1000 ppm	
TITANIUM DIOXIDE (CAS 13463-67-7)	TWA	10 mg/m3	
Toluene (CAS 108-88-3)	TWA	20 ppm	
XYLENE (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL	2380 mg/m3 1000 ppm	
	TWA	1190 mg/m3 500 ppm	
Butane (CAS 106-97-8)	TWA	1900 mg/m3 800 ppm	
CLAY (CAS 1332-58-7)	TWA	5 mg/m3	Respirable dust.
Ethylbenzene (CAS 100-41-4)	STEL	543 mg/m3 125 ppm	
	TWA	434 mg/m3 100 ppm	
PROPANE (CAS 74-98-6)	TWA	1800 mg/m3 1000 ppm	
TITANIUM DIOXIDE (CAS 13463-67-7)	TWA	10 mg/m3	Total dust.
Toluene (CAS 108-88-3)	TWA	188 mg/m3 50 ppm	
XYLENE (CAS 1330-20-7)	STEL	651 mg/m3 150 ppm	
	TWA	434 mg/m3 100 ppm	

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Acetone (CAS 67-64-1)	PEL	2400 mg/m3 1000 ppm	
CLAY (CAS 1332-58-7)	PEL	5 mg/m3 15 mg/m3	Respirable fraction. Total dust.
Ethylbenzene (CAS 100-41-4)	PEL	435 mg/m3 100 ppm	
PROPANE (CAS 74-98-6)	PEL	1800 mg/m3 1000 ppm	
TITANIUM DIOXIDE (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
XYLENE (CAS 1330-20-7)	PEL	435 mg/m3 100 ppm	

US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Type	Value
Toluene (CAS 108-88-3)	Ceiling	300 ppm
	TWA	200 ppm

Biological limit values
ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*
Ethylbenzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*
XYLENE (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*

* - For sampling details, please see the source document.

Exposure guidelines

Canada - Alberta OELs: Skin designation

Toluene (CAS 108-88-3)

Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation

Toluene (CAS 108-88-3)

Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

Toluene (CAS 108-88-3)

Can be absorbed through the skin.

Engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Wear suitable protective clothing. Wear protective gloves.

Respiratory protection

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

Hand protection

Wear protective gloves.

9. Physical & Chemical Properties

Appearance

Aerosol.

Physical state

Liquid.

Form

Aerosol.

Color

Grey.

Odor

Solvent.

Odor threshold

Not available.

pH

Not available.

Vapor pressure

2306.89 hPa estimated

Vapor density

Not available.

Boiling point

-43.78 °F (-42.1 °C) estimated

Melting point/Freezing point

-305.68 °F (-187.6 °C) estimated

Solubility (water)

0 %

Specific gravity

0.8

Relative density

Not available.

Flash point

-133.6 °F (-92.0 °C)

Flammability limits in air, upper, % by volume

12.8 % estimated

Flammability limits in air, lower, % by volume

1.3 % estimated

Auto-ignition temperature

550 °F (287.78 °C) estimated

VOC

400.73 g/l MATERIAL
551.52 g/l COATING

Evaporation rate

Not available.

Percent volatile

77.03 %w/w

Partition coefficient (n-octanol/water)

Not available.

Other data

Density

6.68 lb/gal

10. Chemical Stability & Reactivity Information

Chemical stability

Risk of explosion.

Conditions to avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Strong acids. Acids. Strong oxidizing agents. Nitrates. Halogens. Fluorine. Chlorine.

Hazardous decomposition products	Not available.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data	No data available.
Acute effects	Not available.
Sensitization	Not available.
Chronic effects	Hazardous by WHMIS criteria. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.
Carcinogenicity	Hazardous by WHMIS criteria. Cancer hazard.
ACGIH Carcinogens	
Acetone (CAS 67-64-1)	A4 Not classifiable as a human carcinogen.
CLAY (CAS 1332-58-7)	A4 Not classifiable as a human carcinogen.
Ethylbenzene (CAS 100-41-4)	A3 Confirmed animal carcinogen with unknown relevance to humans.
TITANIUM DIOXIDE (CAS 13463-67-7)	A4 Not classifiable as a human carcinogen.
Toluene (CAS 108-88-3)	A4 Not classifiable as a human carcinogen.
XYLENE (CAS 1330-20-7)	A4 Not classifiable as a human carcinogen.
IARC Monographs. Overall Evaluation of Carcinogenicity	
Ethylbenzene (CAS 100-41-4)	2B Possibly carcinogenic to humans.
TITANIUM DIOXIDE (CAS 13463-67-7)	2B Possibly carcinogenic to humans.
Toluene (CAS 108-88-3)	3 Not classifiable as to carcinogenicity to humans.
XYLENE (CAS 1330-20-7)	3 Not classifiable as to carcinogenicity to humans.
Skin corrosion/irritation	Not available.
Serious eye damage/irritation	Not available.
Mutagenicity	Not available.
Reproductive effects	Hazardous by WHMIS criteria. Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. Can cause adverse reproductive effects - such as birth defects, miscarriages, or infertility.
Teratogenicity	Hazardous by WHMIS criteria. Avoid exposure to women during early pregnancy. Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.
Synergistic materials	Not available.
Further information	Reproductive toxicity. Symptoms may be delayed.

12. Ecological Information

Ecotoxicological data			
Components		Species	Test Results
Acetone (CAS 67-64-1)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	10294 - 17704 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours
Ethylbenzene (CAS 100-41-4)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	7.711 - 9.591 mg/l, 96 hours
		Fathead minnow (Pimephales promelas)	11.5 - 12.7 mg/l, 96 hours
TITANIUM DIOXIDE (CAS 13463-67-7)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/l, 96 hours

Components	Species		Test Results
Toluene (CAS 108-88-3)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	19.6 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	14.1 - 17.16 mg/l, 96 hours
XYLENE (CAS 1330-20-7)			
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	10.464 - 16.114 mg/l, 96 hours 7.711 - 9.591 mg/l, 96 hours
Ecotoxicity	Components of this product are hazardous to aquatic life.		
Environmental effects	Harmful to aquatic organisms. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.		
Aquatic toxicity	Not available.		
Persistence and degradability	Not available.		
Partition coefficient			
Acetone		-0.24	
Butane		2.89	
Ethylbenzene		3.15	
PROPANE		2.36	
Toluene		2.73	
XYLENE		3.12 - 3.2	

13. Disposal Considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. Transport Information

TDG	
UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	Not available.
Special precautions for user	Read safety instructions, MSDS and emergency procedures before handling.
IATA	
UN number	ID8000
UN proper shipping name	Consumer commodity
Transport hazard class(es)	
Class	9
Subsidiary risk	ORM-D
Packing group	Not applicable.
Environmental hazards	No.
Special precautions for user	Read safety instructions, MSDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.

IMDG

UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	F-D, S-U
Special precautions for user	Read safety instructions, MSDS and emergency procedures before handling.

IMDG; TDG**15. Regulatory Information****Canadian regulations**

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS status

Controlled

WHMIS classification

B2 - Flammable Liquids
D2A - Other Toxic Effects-VERY TOXIC
D2B - Other Toxic Effects-TOXIC

WHMIS labeling**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other Information

HMIS® ratings

Health: 2*
Flammability: 4
Physical hazard: 0

NFPA ratings

Health: 2
Flammability: 4
Instability: 0

Disclaimer

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, expressed or implied. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose.

Prepared by

Not available.

**This data sheet contains
changes from the previous
version in section(s):**

Product and Company Identification: Alternate Trade Names
Physical & Chemical Properties: Multiple Properties