

TECH PLASTIC™

2900 (57 g)

SDS Preparation Date (mm/dd/yyyy): 02/28/2019

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SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **TECH PLASTIC™**

Product Code(s) : 2900 (57 g)

Recommended use of the chemical and restrictions on use

: Fast-setting, epoxy putty compound for permanent repairs to anything made of plastic.
Restrictions on use: Not available.

Chemical family : Mixture

Name, address, and telephone number of the supplier:

NLS Products

Box 790, 1 Lakewood Crescent
Bobcaygeon, ON, Canada
K0M 1A0

Supplier's Telephone # : (705) 738-2321

24 Hr. Emergency Tel # : Not available.

Name, address, and telephone number of the manufacturer:

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Solid, stiff putty - grey. Slight epoxy odor.

Most important hazards:

May cause severe irritation or burns with prolonged contact. May cause an allergic skin reaction. Possible cancer hazard - contains material which may cause cancer. Causes damage to organs through prolonged or repeated exposure. Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

Harmful to aquatic life with long lasting effects. Avoid release to the environment. See Section 12 for more environmental information.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Hazard classification:

Skin corrosion/irritation - Category 1

Eye damage/irritation - Category 1

Skin sensitization - Category 1

Carcinogenicity - Category 1

Specific target organ toxicity, repeated exposure - Category 1

Label elements

Hazard pictogram(s)



Signal Word
DANGER!



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Hazard statement(s)

- Causes severe skin burns and eye damage.
- May cause an allergic skin reaction.
- May cause cancer.
- Causes damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust, fume or mist.
- Wash exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing must not be allowed out of the workplace.
- Wear protective gloves/clothing and eye/face protection.

Immediately call a POISON CENTER or doctor/physician.

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 ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store locked up.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification:

Toxic fumes may be released during a fire. Excessive heating above 50°C / 122°F may degrade the resin component. Mild respiratory irritant. May cause severe irritation and corrosive damage in the mouth, throat and stomach.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Glass, oxide, chemicals	Fibrous glass	65997-17-3	10.0 - 30.0
Bisphenol A / epichlorohydrin resin	Reaction product: bisphenol-A-(epichlorohydrin) Bisphenol A/epichlorohydrin based epoxy resin	25068-38-6	7.0 - 30.0
Aminoethylpiperazine	2-piperazin-1-ylethylamine	140-31-8	3.0 - 10.0
aluminum oxide	Aluminum trioxide	1344-28-1	1.0 - 5.0
Crystalline silica	Quartz silica Crystallized silicon dioxide	14808-60-7	0.1 - 1.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. Never give anything by mouth to an unconscious person.

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- Inhalation* : IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Immediately call a POISON CENTER or doctor/physician.
- Skin contact* : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF ON SKIN: Wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.
- Eye contact* : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Flush eyes with water for at least 15 minutes. Immediately call a POISON CENTER or doctor/physician.

Most important symptoms and effects, both acute and delayed

- : May cause severe irritation or burns to the skin. Contact may cause redness, swelling and a painful sensation. Prolonged contact, such as when trapped against the skin under clothing or jewelry, may result in severe corrosive burns.
Risk of serious damage to eyes. Symptoms may include severe pain, tearing, redness, swelling and blurred vision. May cause irreversible eye damage.
May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema.
May cause cancer. Symptoms may include persistent coughing, shortness of breath, coughing up blood and wheezing.
Causes damage to organs through prolonged or repeated exposure. Repeated or prolonged inhalation of fine dusts may cause severe scarring of the lungs, a disease called silicosis, and alveolar proteinosis (lower lung disease). Symptoms may include coughing, shortness of breath and eventually severe respiratory impairment.
Mild respiratory irritant. May cause coughing and breathing difficulties.
May cause severe irritation and corrosive damage in the mouth, throat and stomach.
Symptoms may include severe abdominal pain, vomiting, burns and bleeding.

Indication of any immediate medical attention and special treatment needed

- : Immediate medical attention is required. Causes burns.
Provide general supportive measures and treat symptomatically.
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.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

- : Carbon dioxide (CO₂); Dry chemical; Alcohol resistant foam; Water fog.

Unsuitable extinguishing media

- : Do not use water jet, as this may spread burning material.

Special hazards arising from the substance or mixture / Conditions of flammability

- : Not considered flammable. However, may burn if exposed to extreme heat and flame. Vapors are heavier than air and collect in confined and low-lying areas. Toxic fumes, gases or vapors may evolve on burning. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Flammability classification (OSHA 29 CFR 1910.106)

- : Not classified as flammable.

Hazardous combustion products

- : Carbon oxides; Nitrogen oxides (NO_x); Sulfur oxides; Aldehydes; Ketones; Other unidentified organic compounds.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.
Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

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Special fire-fighting procedures

- : Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

Methods and material for containment and cleaning up

- : Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Scrape up product and place it into a container for disposal. Use inert, non-combustible absorbents to assist the pick up of material. Avoid dust formation. Pick up and transfer to properly labeled containers. Refer to Section 13 for disposal of contaminated material. Contact the proper local authorities.

Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).
US CERCLA Reportable quantity (RQ): None known.

In Canada: Contact appropriate local and provincial environmental authorities for assistance and/or reporting requirements.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted.
Use only in well-ventilated areas. Wear protective equipment during handling. Wear protective gloves/clothing and eye/face protection. Do not breathe dust, fume or mist. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Keep away from incompatibles. Keep container tightly closed when not in use. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Empty containers retain residue (liquid and/or vapor) and can be dangerous.

Conditions for safe storage : Store in cool/well-ventilated place. Store locked up. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

Incompatible materials : Acids; Bases; Oxidizing agents; Amines

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure Limits:</u>				
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Glass, oxide, chemicals	10 mg/m ³ (inhalable); 3 mg/m ³ (respirable) (PNOS)	N/Av	15 mg/m ³ (total dust); 5 mg/m ³ (respirable) (PNOR)	N/Av
Bisphenol A / epichlorohydrin resin	N/Av	N/Av	N/Av	N/Av
Aminoethylpiperazine	N/Av	N/Av	N/Av	N/Av
aluminum oxide	1 mg/m ³ (respirable)	N/Av	15 mg/m ³ (total dust); 5 mg/m ³ (respirable)	N/Av
Crystalline silica	0.025 mg/m ³ (respirable)	N/Av	0.1 mg/m ³ (respirable) (final rule limit)	N/Av

Exposure controls

Ventilation and engineering measures

- : Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection

- : If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.

Skin protection

- : Wear protective gloves/clothing. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Wear resistant clothing and boots.

Eye / face protection

- : Wear eye/face protection. Wear as appropriate: Tightly fitting safety goggles; Safety glasses with side shields. A full face shield may also be necessary.

Other protective equipment

- : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations

- : Do not breathe dust, fume or mist. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Contaminated work clothing must not be allowed out of the workplace. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Solid, stiff putty - grey
Odor	: Slight epoxy odor.
Odor threshold	: N/Av
pH	: 9.5 (5% solution)
Melting/Freezing point	: Melting point: N/Av Freezing point: N/Av

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Initial boiling point and boiling range

: N/Av

Flash point : > 260°C (500°F)**Flashpoint (Method)** : Tag closed cup**Evaporation rate (BuAe = 1)** : < 1 (butyl acetate = 1)**Flammability (solid, gas)** : Not considered flammable.**Lower flammable limit (% by vol.)**

: N/Av

Upper flammable limit (% by vol.)

: N/Av

Oxidizing properties : No oxidizing properties.**Explosive properties** : Not explosive**Vapor pressure** : Nil @ 25.6°C (78°F)**Vapor density** : > 1 (Air = 1.0)**Relative density / Specific gravity**: Relative density: 1900 kg/m³
Specific Gravity: 1.9**Solubility in water** : Negligible.**Other solubility(ies)** : N/Av**Partition coefficient: n-octanol/water or Coefficient of water/oil distribution**

: N/Av

Auto-ignition temperature : N/Av**Decomposition temperature** : N/Av**Viscosity** : N/Av**Volatiles (% by weight)** : 0%**Volatile organic Compounds (VOC's)**

: 0 g/L

Absolute pressure of container

: N/Av

Flame projection length : N/Av**Other physical/chemical comments**

: No additional information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.**Chemical stability** : Stable under normal conditions. Excessive heating above 50°C / 122°F may degrade the resin component.**Possibility of hazardous reactions**

: Hazardous polymerization does not occur.

Conditions to avoid : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.**Incompatible materials** : Acids; Bases; Amines; Oxidizing agents**Hazardous decomposition products**

: Not available.

Refer also to hazardous combustion products, Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES

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Routes of entry skin & eye : YES

Routes of entry Ingestion : YES

Routes of exposure skin absorption
: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: Mild respiratory irritant. Symptoms may include coughing and sneezing.

Sign and symptoms ingestion

: May cause irritation and burns to mouth and throat. Symptoms may include severe abdominal pain, vomiting, burns and bleeding.

Sign and symptoms skin

: May cause severe irritation or burns to the skin. Contact may cause redness, swelling and a painful sensation. Prolonged contact, such as when trapped against the skin under clothing or jewelry, may result in severe corrosive burns.

Sign and symptoms eyes

: Causes serious eye damage. Symptoms may include severe pain, tearing, redness, swelling and blurred vision. May cause irreversible eye damage.

Potential Chronic Health Effects

: Chronic skin contact with low concentrations may cause dermatitis. Symptoms may include redness, edema, drying defatting and cracking of the skin.

Mutagenicity

: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:
Carcinogenicity - Category 1. May cause cancer. Symptoms may include persistent coughing, shortness of breath, coughing up blood and wheezing.
Contains crystalline silica. Crystalline silica is classified as carcinogenic by IARC (Group 1), the ACGIH (Category A2) and the NTP (Group 1 - Known human carcinogen).
Contains: Glass oxide (glass fiber). Synthetic vitreous fibres - special purpose glass fibres are considered carcinogenic by IARC (Group 2B) and the ACGIH (Category A3).

Reproductive effects & Teratogenicity

: This product is not expected to cause reproductive or developmental effects.

Sensitization to material

: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:
Skin sensitization - Category 1. May cause an allergic skin reaction. May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema.
Contains: Bisphenol A / epichlorohydrin based resin; Aminoethylpiperazine.

Not expected to be a respiratory sensitizer.

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Specific target organ effects : This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:
 Specific target organ toxicity, repeated exposure - Category 1. Causes damage to organs through prolonged or repeated exposure. Repeated or prolonged inhalation of fine dusts may cause severe scarring of the lungs, a disease called silicosis, and alveolar proteinosis (lower lung disease). Symptoms may include coughing, shortness of breath and eventually severe respiratory impairment.

According to the classification criteria of U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015), this product is not expected to cause target organ toxicity through single exposures.

Medical conditions aggravated by overexposure

: Pre-existing skin, eye and respiratory disorders.

Synergistic materials

: Not available.

Toxicological data

: No data is available on the product itself. The calculated ATE values for this mixture are:
 ATE oral = 14,700 - 147,000 mg/kg
 ATE dermal = 8650 - 86,500 mg/kg

See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC₅₀ (4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Glass, oxide, chemicals	N/Av	> 2000 mg/kg (No mortality)	> 5000 mg/kg
Bisphenol A / epichlorohydrin resin	N/Av	11 400 mg/kg	> 2000 mg/kg (No mortality)
Aminoethylpiperazine	> 890 ppm (4.7 mg/L) (mist) (No mortality)	1470 mg/kg	865 mg/kg
aluminum oxide	> 2.3 mg/L (dust) (No mortality)	> 2000 mg/kg (No mortality)	N/Av
Crystalline silica	N/Av	N/Av	N/Av

Other important toxicological hazards

: Not available.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: Harmful to aquatic life with long lasting effects. No data is available on the product itself. The product contains the following substances which are hazardous for the environment:
 Bisphenol A / epichlorohydrin resin; Aminoethylpiperazine.

See the following tables for individual ingredient ecotoxicity data.

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Ecotoxicity data:

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Glass, oxide, chemicals	65997-17-3	> 1000 mg/L (Zebra fish)	N/Av	None.
Bisphenol A / epichlorohydrin resin	25068-38-6	3.4 mg/L (Rainbow trout)	N/Av	None.
Aminoethylpiperazine	140-31-8	2190 mg/L (Fathead minnow)	N/Av	None.
aluminum oxide	1344-28-1	> 100 mg/L (Brown trout)	N/Av	None.
Crystalline silica	14808-60-7	N/Av	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Glass, oxide, chemicals	65997-17-3	N/Av	N/Av	None.
Bisphenol A / epichlorohydrin resin	25068-38-6	1.1 - 2.8 mg/L (Daphnia magna)	0.3 mg/L (Read-across)	None.
Aminoethylpiperazine	140-31-8	58 mg/L Water flea	N/Av	None.
aluminum oxide	1344-28-1	> 100 mg/L (Daphnia magna)	N/Av	None.
Crystalline silica	14808-60-7	N/Av	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Glass, oxide, chemicals	65997-17-3	> 1000 mg/L/72hr (Green algae)	≥ 1000 mg/L/72hr	None.
Bisphenol A / epichlorohydrin resin	25068-38-6	9.4 mg/L/72hr (Green algae) (Read-across)	2.8 mg/L/72hr (Read-across)	None.
Aminoethylpiperazine	140-31-8	> 1000 mg/L/72hr (Green algae)	N/Av	None.
aluminum oxide	1344-28-1	> 100 mg/L/72hr (Green algae) (Read-across)	N/Av	None.
Crystalline silica	14808-60-7	N/Av	N/Av	None.

Persistence and degradability

- : No data is available on the product itself.
- Contains the following chemicals which are not readily biodegradable: Bisphenol A / epichlorohydrin resin; Crystalline silica, quartz; Aminoethylpiperazine; Glass, oxide, chemicals; aluminum oxide.

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Bioaccumulation potential : No data is available on the product itself. See the following data for ingredient information.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Bisphenol A / epichlorohydrin resin (CAS 25068-38-6)	> 2.915	31
Aminoethylpiperazine (CAS 140-31-8)	- 1.48	< 0.3 to 6.3 (common carp) (Read-across)

Mobility in soil : The product itself has not been tested.

Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS

- Handling for Disposal** : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. Empty containers retain residue and can be dangerous. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
- Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations.
- RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

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SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	None.	Not regulated.	Not regulated	None	
TDG Additional information	None.				
49CFR/DOT	None.	Not regulated.	Not regulated	None	
49CFR/DOT Additional information	None.				
ICAO/IATA	None.	Not regulated.	Not regulated	None	
ICAO/IATA Additional information	None.				
IMDG	None.	Not regulated.	Not regulated	None	
IMDG Additional information	None.				

Special precautions for user : Appropriate advice on safety must accompany the package.

Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.



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SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Glass, oxide, chemicals	65997-17-3	Yes	None.	None.	No	N/Ap
Bisphenol A / epichlorohydrin resin	25068-38-6	Yes	None.	None.	No	NS
Aminoethylpiperazine	140-31-8	Yes	None.	None.	No	N/Ap
aluminum oxide	1344-28-1	Yes	None.	None.	Yes	1%
Crystalline silica	14808-60-7	Yes	None.	None.	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:

Health hazards (Skin corrosion; Eye Damage; Skin sensitization; Carcinogenicity; Specific target organ toxicity, repeated exposure)

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Glass, oxide, chemicals	65997-17-3	No	N/Ap	No	No	Yes	No	No	No
Bisphenol A / epichlorohydrin resin	25068-38-6	No	N/Ap	No	No	No	No	No	No
Aminoethylpiperazine	140-31-8	No	N/Ap	No	Yes	No	Yes	Yes	No
aluminum oxide	1344-28-1	No	N/Ap	Yes	Yes	Yes	Yes	Yes	No
Crystalline silica	14808-60-7	Yes	Cancer (airborne particles of respirable size)	No	Yes	Yes	Yes	Yes	Yes

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Canadian National Pollutant Release Inventory (NPRI): This product contains the following substances listed on the NPRI: aluminum oxide (Part 1, Group A Substance)

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

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International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	<u>CAS #</u>	<u>European EINECS</u>	<u>Australia AICS</u>	<u>Philippines PICCS</u>	<u>Japan ENCS</u>	<u>Korea KECI/KECL</u>	<u>China IECSC</u>	<u>New Zealand IOC</u>
Glass, oxide, chemicals	65997-17-3	266-046-0	Present	Present	(1)-189	KE-17630	Present	May be used as a single component chemical under an appropriate group standard.
Bisphenol A / epichlorohydrin resin	25068-38-6	500-033-5	Present	Present	(7)-1283	KE-24000	Present	HSR003180
Aminoethylpiperazine	140-31-8	205-411-0	Present	Present	(5)-961	KE-28762	Present	HSR004013
aluminum oxide	1344-28-1	215-691-6	Present	Present	(1)-23	KE-01012	Present	May be used as a single component chemical under an appropriate group standard.
Crystalline silica	14808-60-7	238-878-4	Present	Present	(1)-548	KE-29983	Present	HSR003125

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists
 AICS: Australian Inventory of Chemical Substances
 ATE: Acute Toxicity Estimate
 CA: California
 CAS: Chemical Abstract Services
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
 CFR: Code of Federal Regulations
 CSA: Canadian Standards Association
 DOT: Department of Transportation
 ECHA: European Chemicals Agency
 ECOTOX: U.S. EPA Ecotoxicology Database
 EINECS: European Inventory of Existing Commercial chemical Substances
 ENCS: Existing and New Chemical Substances
 EPA: Environmental Protection Agency
 HSDB: Hazardous Substances Data Bank
 IARC: International Agency for Research on Cancer
 IBC: Intermediate Bulk Container
 IECSC: Inventory of Existing Chemical Substances
 IMDG: International Maritime Dangerous Goods
 IOC: Inventory of Chemicals
 IUCLID: International Uniform Chemical Information Database
 KECI: Korean Existing Chemicals Inventory
 KECL: Korean Existing Chemicals List
 LC: Lethal Concentration
 LD: Lethal Dose
 MA: Massachusetts
 MN: Minnesota
 N/Ap: Not Applicable
 N/Av: Not Available
 NIOSH: National Institute of Occupational Safety and Health

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SAFETY DATA SHEET

NJ: New Jersey
 NOEC: No observable effect concentration
 NTP: National Toxicology Program
 OECD: Organisation for Economic Co-operation and Development
 OSHA: Occupational Safety and Health Administration
 PA: Pennsylvania
 PEL: Permissible exposure limit
 PICCS: Philippine Inventory of Chemicals and Chemical Substances
 RCRA: Resource Conservation and Recovery Act
 RI: Rhode Island
 RTECS: Registry of Toxic Effects of Chemical Substances
 SARA: Superfund Amendments and Reauthorization Act
 SDS: Safety Data Sheet / Material Safety Data Sheet
 STEL: Short Term Exposure Limit
 TDG: Canadian Transportation of Dangerous Goods Act & Regulations
 TLV: Threshold Limit Values
 TSCA: Toxic Substance Control Act
 TWA: Time Weighted Average
 WHMIS: Workplace Hazardous Materials Identification System

References

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2018.
- 2. International Agency for Research on Cancer Monographs, searched 2019.
- 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2019 (Chempendium, HSDB and RTECs).
- 4. Material Safety Data Sheets from manufacturer.
- 5. US EPA Title III List of Lists - March 2015 version.
- 6. California Proposition 65 List - November 23, 2018 version.
- 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2019.

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Other special considerations for handling

- : Provide adequate information, instruction and training for operators.

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