

TECH STEEL®

# 16002; # 6002; # 6004

SDS Preparation Date (mm/dd/yyyy): 03/21/2018

Page 1 of 13

## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

Product identifier used on the label

: **TECH STEEL®**

Product Code(s) : # 16002; # 6002; # 6004

Recommended use of the chemical and restrictions on use

: Hand-kneadable, fast-setting, industrial-strength, steel-reinforced polymer, epoxy putty compound for permanent repairs to anything made of steel or other metals.  
No restrictions on use known.

Chemical family : Mixture of: Inorganic substances in powdered form; Epoxy resin

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 # : No information available.

Name, address, and telephone number of the manufacturer:

Refer to supplier

### SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Paste. Gray/black colour. Pungent, sulfurous odor.

*Most important hazards:*

Causes skin irritation. Causes eye irritation. May cause an allergic skin reaction. Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

This product is packaged and sold as a consumer product. The below WHMIS 2015 and US OSHA Hazcom 2012 classification and labeling information is being provided for informational purposes.

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 2

Eye damage/irritation - Category 2B

Skin sensitization - Category 1

Label elements

*Hazard pictogram(s)*



*Signal Word*  
WARNING!

*Hazard statement(s)*

Causes skin irritation.

May cause an allergic skin reaction.

Causes eye irritation.

TECH STEEL®

# 16002; # 6002; # 6004

SDS Preparation Date (mm/dd/yyyy): 05/24/2017

Page 2 of 13

## SAFETY DATA SHEET

### Precautionary statement(s)

Avoid breathing dust and fume.  
 Wash exposed skin thoroughly after handling.  
 Contaminated work clothing must not be allowed out of the workplace.  
 Wear protective gloves.

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.

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. May be harmful if inhaled. Mild respiratory irritant. May cause gastrointestinal irritation. Avoid dust formation. If fine airborne dusts are generated and inhaled, product presents a possible cancer hazard. Prolonged or repeated inhalation of dusts may cause lung disease.

#### Environmental precautions:

Harmful to aquatic life with long lasting effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

## 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>
Talc, containing no asbestos fibers	Hydrous magnesium silicate	14807-96-6	30.0 - 60.0
Ferrosilicon	Ferro silica Iron silicide Ferric silicon	8049-17-0	10.0 - 30.0
Glass, oxide, chemicals	Not available.	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	10.0 - < 25.0
Crystalline silica	Quartz silica Crystallized silicon dioxide	14808-60-7	0.1 - 1.0

Note: This product is packaged and sold as a consumer product.

## SECTION 4. FIRST-AID MEASURES

### Description of first aid measures

- Ingestion* : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms persist.
- Inhalation* : If inhaled, move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
- Skin contact* : IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it 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. If eye irritation persists: get medical advice/attention.

TECH STEEL®

# 16002; # 6002; # 6004

SDS Preparation Date (mm/dd/yyyy): 05/24/2017

Page 3 of 13

## SAFETY DATA SHEET

### Most important symptoms and effects, both acute and delayed

- : Causes skin irritation. Contact may cause redness, swelling and a painful sensation. Causes eye irritation. Symptoms may include tearing, redness and discomfort. May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema.
- : May be harmful if inhaled. Mild respiratory irritant. May cause coughing and breathing difficulties. Inhalation of extremely high concentrations could cause fever, vomiting, coughing, loss of appetite, dizziness, headaches, bluish discoloration of the skin and nausea, vomiting.
- : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- : Avoid dust formation. If fine airborne dusts are generated and inhaled, product presents a possible cancer hazard. Prolonged or repeated inhalation of dusts may cause lung disease.

### Indication of any immediate medical attention and special treatment needed

- : Provide general supportive measures and treat symptomatically.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing media

#### *Suitable extinguishing media*

- : Carbon dioxide (CO<sub>2</sub>); Dry chemical; Alcohol resistant foam; Water fog.

#### *Unsuitable extinguishing media*

- : None known.

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

- : Not considered flammable. However, may burn if exposed to extreme heat and flame. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Toxic fumes, gases or vapors may evolve on burning.

### Flammability classification (OSHA 29 CFR 1910.106)

- : Not classified as flammable.

### Hazardous combustion products

- : Carbon oxides; Phenols; Aldehydes; Acids; Sulfur oxides; Hydrogen; Phosphine; Metal oxides; 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.

#### *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. 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.



TECH STEEL®

# 16002; # 6002; # 6004

SDS Preparation Date (mm/dd/yyyy): 05/24/2017

Page 4 of 13

## SAFETY DATA SHEET

### 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

- : 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. Avoid breathing dust and fume. 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 vapour) and can be dangerous.

#### Conditions for safe storage

- : Store in cool/well-ventilated place. 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; Amines; Oxidizing agents

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
	Talc, containing no asbestos fibers	2 mg/m <sup>3</sup> (respirable) (talc containing no asbestos)	N/Av	20 mppcf
Ferrosilicon	N/Av	N/Av	N/Av	N/Av
Glass, oxide, chemicals	N/Av	N/Av	N/Av	N/Av
Bisphenol A / epichlorohydrin resin	N/Av	N/Av	N/Av	N/Av
Crystalline silica	0.025 mg/m <sup>3</sup> (respirable)	N/Av	0.1 mg/m <sup>3</sup> (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.

TECH STEEL®

# 16002; # 6002; # 6004

SDS Preparation Date (mm/dd/yyyy): 05/24/2017

Page 5 of 13

## SAFETY DATA SHEET

- 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. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Wear sufficient clothing to prevent skin contact.
- Eye / face protection** : Wear as appropriate: Tightly fitting safety goggles; Safety glasses with side shields.
- 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** : Avoid breathing dust and fume. 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** : Paste. Gray/black colour.
- Odour** : Pungent, sulfurous odor.
- Odour threshold** : N/Av
- pH** : N/Av
- Melting/Freezing point** : N/Av
- Initial boiling point and boiling range** : N/Av
- Flash point** : N/Av
- Flashpoint (Method)** : N/Av
- Evaporation rate (BuAe = 1)** : N/Av
- Flammability (solid, gas)** : Does not sustain combustion.
- Lower flammable limit (% by vol.)** : N/Av
- Upper flammable limit (% by vol.)** : N/Av
- Oxidizing properties** : None known.
- Explosive properties** : Not explosive
- Vapour pressure** : N/Av
- Vapour density** : N/Av
- Relative density / Specific gravity** : 2.247
- Solubility in water** : Insoluble.
- Other solubility(ies)** : Easily soluble in: Methanol; Acetone
- Partition coefficient: n-octanol/water or Coefficient of water/oil distribution** : N/Av
- Auto-ignition temperature** : N/Av
- Decomposition temperature** : > 200°C (392°F)
- Viscosity** : N/Av
- Volatiles (% by weight)** : N/Av
- Volatile organic Compounds (VOC's)** : N/Av
- Absolute pressure of container** : N/Av

TECH STEEL®

# 16002; # 6002; # 6004

SDS Preparation Date (mm/dd/yyyy): 05/24/2017

Page 6 of 13

## SAFETY DATA SHEET

Flame projection length : N/Ap  
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 : None known, refer to hazardous combustion products in Section 5.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure:

Routes of entry inhalation : YES  
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*

: May be harmful if inhaled. Mild respiratory irritant. Symptoms may include coughing and sneezing. Inhalation of extremely high concentrations could cause fever, vomiting, coughing, loss of appetite, dizziness, headaches, bluish discoloration of the skin and nausea, vomiting.

###### *Sign and symptoms ingestion*

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

###### *Sign and symptoms skin*

: Causes skin irritation. Contact may cause redness, swelling and a painful sensation.

###### *Sign and symptoms eyes*

: Causes eye irritation. Symptoms may include tearing, redness and discomfort.

##### Potential Chronic Health Effects

: Prolonged or repeated skin contact may cause drying, cracking, or redness or irritation.

##### Mutagenicity

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

##### Carcinogenicity

: Not classifiable as a human carcinogen, based on currently available data.  
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). However, Crystalline silica is listed as causing cancer only when it's particles are airborne and of a respirable size. Airborne respirable particles are not expected for this product, based on the intended use and form of the product as a whole.

##### Reproductive effects & Teratogenicity

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

TECH STEEL®

# 16002; # 6002; # 6004

SDS Preparation Date (mm/dd/yyyy): 05/24/2017

Page 7 of 13

## SAFETY DATA SHEET

**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.

Not expected to be a respiratory sensitizer.

**Specific target organ effects** : 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 or repeated exposures.

**Medical conditions aggravated by overexposure**

: Pre-existing skin, eye, respiratory and central nervous system disorders.

**Synergistic materials**

: No information available.

**Toxicological data**

: No data is available on the product itself. The calculated ATE values for this mixture are:  
 ATE inhalation (dust/mist) = > 5 - 15 mg/L/4H

See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC<sub>50</sub> (4hr)</u>	<u>LD<sub>50</sub></u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Talc, containing no asbestos fibers	N/Av	N/Av	N/Av
Ferrosilicon	> 1 mg/L (dust)	N/Av	> 20 000 mg/kg
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)
Crystalline silica	N/Av	N/Av	N/Av

**Other important toxicological hazards**

: None reported by the manufacturer.

### 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.

See the following tables for individual ingredient ecotoxicity data.

TECH STEEL®

# 16002; # 6002; # 6004

SDS Preparation Date (mm/dd/yyyy): 05/24/2017

Page 8 of 13

## SAFETY DATA SHEET

### Ecotoxicity data:

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Talc, containing no asbestos fibers	14807-96-6	> 110 000 mg/L (QSAR)	1413 mg/L (30 days) (QSAR)	None.
Ferrosilicon	8049-17-0	N/Av	N/Av	None.
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.
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
Talc, containing no asbestos fibers	14807-96-6	36 812 mg/L (QSAR)	1460 mg/L (30 days) (QSAR)	None.
Ferrosilicon	8049-17-0	N/Av	N/Av	None.
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.
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
Talc, containing no asbestos fibers	14807-96-6	7203 mg/L/96hr (Green algae) (QSAR)	N/Av	None.
Ferrosilicon	8049-17-0	N/Av	N/Av	None.
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.
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; talc; Ferrosilicon; Glass, oxide, chemicals





TECH STEEL®

# 16002; # 6002; # 6004

SDS Preparation Date (mm/dd/yyyy): 05/24/2017

Page 9 of 13

## SAFETY DATA SHEET

**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>
Talc, containing no asbestos fibers (CAS 14807-96-6)	- 1.5 (estimated)	N/Av
Bisphenol A / epichlorohydrin resin (CAS 25068-38-6)	> 2.915	31

**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.



TECH STEEL®





# 16002; # 6002; # 6004

SDS Preparation Date (mm/dd/yyyy): 05/24/2017

Page 10 of 13

## SAFETY DATA SHEET

### SECTION 14. TRANSPORTATION INFORMATION

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

### SECTION 15 - REGULATORY INFORMATION

**US Federal Information:**

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

Ingredients	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
Talc, containing no asbestos fibers	14807-96-6	Yes	None.	None.	No	N/Ap
Ferrosilicon	8049-17-0	NL	None.	None.	No	N/Ap
Glass, oxide, chemicals	65997-17-3	Yes	None.	None.	No	N/Ap
Bisphenol A / epichlorohydrin resin	25068-38-6	Yes	None.	None.	No	NS
Crystalline silica	14808-60-7	Yes	None.	None.	No	N/Ap



TECH STEEL®

# 16002; # 6002; # 6004

SDS Preparation Date (mm/dd/yyyy): 05/24/2017

Page 11 of 13

## SAFETY DATA SHEET

### 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
Talc, containing no asbestos fibers	14807-96-6	No	N/Ap (talc containing no asbestos)	Yes	Yes	Yes	Yes	Yes	Yes
Ferrosilicon	8049-17-0	No	N/Ap	No	No	No	Yes	No	No
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
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 does not contain any substances listed on the NPRI.

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

### International Information:

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

<u>Ingredients</u>	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	New Zealand IOC
Talc, containing no asbestos fibers	14807-96-6	238-877-9	Present	Present	(1)-468; (1)-468	KE-32773	Present	May be used as a single component chemical under an appropriate group standard.
Ferrosilicon	8049-17-0	617-088-7	N/Av	Present	N/Av	N/Av	N/Av	HSR001276
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
Crystalline silica	14808-60-7	238-878-4	Present	Present	(1)-548	KE-29983	Present	HSR003125



TECH STEEL®

# 16002; # 6002; # 6004

SDS Preparation Date (mm/dd/yyyy): 05/24/2017

Page 12 of 13

## SAFETY DATA SHEET

### 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/Av: Not Available  
N/Ap: Not Applicable  
NIOSH: National Institute of Occupational Safety and Health  
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

TECH STEEL®

# 16002; # 6002; # 6004

SDS Preparation Date (mm/dd/yyyy): 05/24/2017

Page 13 of 13

## SAFETY DATA SHEET

- References**
- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2017.
  - 2. International Agency for Research on Cancer Monographs, searched 2017.
  - 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2017 (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 - January 27, 2017 version.
  - 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2017.

**Preparation Date (mm/dd/yyyy)**

: 05/24/2017

**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

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