

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA HCS 2024 and Canada Hazardous Products Act (HPA) and Hazardous Products Regulation (HPR), as amended

Issuing Date 18-Apr-2025	Revision date	18-Apr-2025	Revision Number 1
1. Identification			
Product identifier			
Product Name	C6+ Hardener		
Other means of identification			
Product Code(s)	C6P-15; C6P-30		
Synonyms	None		
Recommended use of the chemical	and restrictions on use	<u>)</u>	
Recommended use	Chemical fixing		
Restrictions on use	Use as intended for concrete anchoring applications		
Details of the supplier of the safety	data sheet		
Supplier Address ITW Commercial Construction North A 155 Harlem Avenue Glenview, IL 60025	America ITW C 120 Tr	<b>supplier identifier</b> onstruction Products Canada avail Road am, Ontario I1	
<u>E-mail</u>	techsupport@itwccna.com		
Emergency telephone number			
Company Phone Number	US: 1-800-848-5611 CA: 1-800-387-9692		
Emergency telephone	Chemtrec 1-800-424-9300		
2. Hazard(s) identification			

# Classification of the substance or mixture

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Reproductive toxicity	Category 2

# Label elements

## Danger

# Hazard statements

Harmful if swallowed. Harmful if inhaled. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child.



#### **Precautionary Statements - Prevention**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves, protective clothing, eve protection and face protection.

Wash face, hands and any exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoid breathing dust, fume, gas, mist, vapors and spray.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention.

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

#### Skin

IF ON SKIN: Wash with plenty of water and soap.

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice and attention.

# Inhalation

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

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

Rinse mouth.

# **Precautionary Statements - Storage**

Store locked up.

#### **Precautionary Statements - Disposal**

Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

#### Unknown acute toxicity

44 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

51 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

# Hazards classified under paragraph (d)(1)(ii) of 1910.1200

No information available.

#### Other information

May be harmful in contact with skin. Toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

# 3. Composition/information on ingredients

# Substance

Not applicable.

### Mixture

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Phenol, styrenated	61788-44-1	25 - 40	-	-
Quartz	14808-60-7	20 - 40	-	-
1,3-Bis(aminomethyl)cyclohexane	2579-20-6	10 - 20	-	-
Glass, oxide	65997-17-3	5 - 15	-	-
Ceramic materials and wares, chemicals	66402-68-4	5 - 10	-	-
Cyclohexanamine, 4,4`-methylenebis-	1761-71-3	5 - 10	-	-
1-Piperazineethanamine	140-31-8	5 - 15	-	-
Salicylic acid	69-72-7	1 - 5	-	-

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures	
Description of first aid measures	
General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.
Eye contact	Get immediate medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as
	required. See section 8 for more information.

Most important symptoms and effects, both acute and delayed

Symptoms	Burning sensation. Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.
Effects of Exposure	May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** May cause sensitization in susceptible persons. Treat symptomatically.

person. Get medical attention.

# 5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Unsuitable extinguishing media	No information available.		
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.		
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	<b>t</b> None. None.		
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.		
6. Accidental release meas	sures		
Personal precautions, protective ed	nuipment and emergency procedures		
Personal precautions	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.		

- Other information Refer to protective measures listed in Sections 7 and 8.
- Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Pick up and transfer to properly labeled containers.	
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	

# 7. Handling and storage

# Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes. Avoid breathing vapors or mists.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.
Conditions for safe storage, includ	ing any incompatibilities

# Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

# 8. Exposure controls/personal protection

# Control Parameters

# **Exposure Limits**

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV		OSHA PEL		NIOSH	
Quartz	TWA: 0.025 mg/m <sup>3</sup> respirable TWA:		50 µg/m³	IDLH	: 50 mg/m <sup>3</sup> respirable	
14808-60-7	particulate matter : (250)/(%SiO2 + 5) mppcf			dust		
				rable fraction	TWA:	0.05 mg/m <sup>3</sup> respirable
				iO2 + 2) mg/m <sup>3</sup>		dust
			I WA respi	TWA respirable fraction		
Glass, oxide	TWA: 1 fiber/cm3 res			-		-
65997-17-3	fibers: length >5 μm, ratio >=3:1, as determ					
	the membrane filter m					
	400-450X magnificatio					
	objective], using phase					
	illumination	oonnaor				
	TWA: 5 mg/m <sup>3</sup> inh	alable				
	particulate matte					
Ceramic materials and wares,	TWA: 5 mg/m <sup>3</sup> Zr		TWA: 5 mg/m <sup>3</sup> Zr		TWA: 1 mg/m <sup>3</sup> ; Mn	
chemicals	TWA: 0.02 mg/m <sup>3</sup> Mn respirable		(vacated) TWA: 5 mg/m <sup>3</sup> Zr		TWA: 5 mg/m <sup>3</sup> ; except	
66402-68-4			(vacated) STEL: 10 mg/m <sup>3</sup> Zr		Zirconium tetrachloride Zr	
	TWA: 0.1 mg/m <sup>3</sup> Mn ir			5 mg/m <sup>3</sup> Mn		STEL: 3 mg/m <sup>3</sup> Mn
	particulate matte		(vacated) Ce	eiling: 5 mg/m <sup>3</sup>		STEL: 10 mg/m <sup>3</sup> Zr
	STEL: 10 mg/m <sup>3</sup>	Zr				DLH: 500 mg/m <sup>3</sup> Mn
Observices	Alla auta	Duitia	h. Oalumahia	Orataria		DLH: 25 mg/m <sup>3</sup> Zr
Chemical name	Alberta TWA: 0.025 mg/m <sup>3</sup> ;		h Columbia 0.025 mg/m <sup>3</sup> ;	Ontario		Quebec TWAEV: 0.1 mg/m <sup>3</sup> ;
Quartz 14808-60-7	respirable particulate		espirable	TWA: 0.10 mg		respirable dust
Glass, oxide	TWA: 5 mg/m <sup>3</sup> ; total		1 fibre/cm3;	TWA: 1 fibre/		TWAEV: 1 fibre/cm3;
65997-17-3	particulate		$\Lambda: 5 \text{ mg/m}^3;$	respirable	,	respirable
00001-11-0	TWA: 1 fibre/cm3;		halable	TWA: 5 mg/		TWAEV: 5 mg/m <sup>3</sup> ;
			inalabio	inhalable frac		inhalable aerosol
						fraction
Ceramic materials and wares,	TWA: 5 mg/m <sup>3</sup> ;	TWA	\: 5 mg/m <sup>3</sup> ;	TWA: 5 mg/	m³;	TWAEV: 0.2 mg/m <sup>3</sup> ;
chemicals	TWA: 0.2 mg/m <sup>3</sup> ;		0.02 mg/m <sup>3</sup> ;	TWA: 0.02 mg		inhalable aerosol
66402-68-4	STEL: 10 mg/m <sup>3</sup> ;	re	spirable	respirable parti	culate	fraction
			: 0.1 mg/m³;	matter		TWAEV: 0.05 mg/m <sup>3</sup> ;
			halable	TWA: 0.1 mg		respirable aerosol
			.: 10 mg/m <sup>3</sup> ;	inhalable partie	culate	fraction
		Adverse	e reproductive	matter	13-	TWAEV: 5 mg/m <sup>3</sup> ;
			effect	STEL: 10 mg	/m°;	STEV: 10 mg/m <sup>3</sup> ;

Chemical name	Manitoba	New Brunswick	Newfoundland and Labrador	Nova Scotia
Quartz	TWA: 0.025 mg/m <sup>3</sup> ; respirable particulate matter	TWA: 0.025 mg/m <sup>3</sup> ; respirable fraction	TWA: 0.025 mg/m <sup>3</sup> ; respirable particulate matter	TWA: 0.025 mg/m <sup>3</sup> ; respirable particulate matter

Chemical name	Nunavut	Prince Edward Island	Saskatchewan	Yukon
Quartz	TWA: 0.05 mg/m <sup>3</sup> ; respirable fraction	TWA: 0.025 mg/m <sup>3</sup> ; respirable particulate matter	TWA: 0.05 mg/m <sup>3</sup> ; respirable fraction	TWA: 300 particle/mL;
Glass, oxide				TWA: 30 mppcf; dust or fibrous TWA: 10 mg/m <sup>3</sup> ; dust or fibrous

# Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.	
Individual protection measures, su	ch as personal protective equipment	
Eye/face protection	Tight sealing safety goggles.	
Hand protection	Wear suitable gloves. Impervious gloves.	
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing.	
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.	

# 9. Physical and chemical properties

	ste	
Property	<u>Values</u>	Remarks • Method
Melting point / freezing point		No data available
Boiling point (or initial boiling point or boiling range)		No data available
Flammability		No data available
Flammability Limit in Air		
Upper flammability or explosive limits	6	No data available
Lower flammability or explosive limits		No data available
Flash point	> 100 °C / 212 °F	
Autoignition temperature		No data available
Decomposition temperature		No data available
SADT (°C)		No data available
рН		No data available
pH (as aqueous solution)		No data available
Kinematic viscosity		No data available
Dynamic viscosity		No data available
Solubility		No data available
Water solubility		No data available
Partition coefficient n-octanol/water (log value)	I	No data available
Vapor pressure (includes evaporation		No data available
rate)		
Evaporation rate		No data available
Density and/or relative density	> 1	
Bulk density		No data available
Liquid Density		No data available
Relative vapor density		No data available
Particle characteristics		

Particle Size Particle Size Distribution		No data available No data available
Other information		
Molecular weight	No information available	
VOC content	0.5%, as applied	
	0.1 lb/gal, as applied	
Softening point	No information available	
Information with regard to physica Explosives Explosive properties Oxidizing properties	<u>I hazard classes</u> No information available No information available	

# 10. Stability and reactivity

Reactivity	None under normal use conditions.	
Chemical stability	Stable under normal conditions.	
Possibility of hazardous reactions	None under normal processing.	
Conditions to avoid	Excessive heat. Incompatible materials.	
Incompatible materials	Strong acids, Strong bases, Strong oxidizing agents, Aldehydes, Halogenated compounds.	

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

# Information on likely routes of exposure

Product Information	
Inhalation	May cause irritation of respiratory tract (based on components). Harmful by inhalation. Specific test data for the substance or mixture is not available.
Eye contact	Causes serious eye damage. May cause irreversible damage to eyes. Specific test data for the substance or mixture is not available.
Skin contact	Causes skin irritation (based on components). May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Specific test data for the substance or mixture is not available.
Ingestion	Harmful if swallowed (based on components). Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Specific test data for the substance or mixture is not available.
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	Redness. Burning. May cause blindness. Itching. Rashes. Hives. May cause redness and tearing of the eyes. Coughing and/ or wheezing.
Acute toxicity	Harmful if swallowed. Harmful by inhalation.
Numerical measures of toxicity	

The following ATE values have been calculated for the mixture:

ATEmix (oral)	537.8 mg/kg
ATEmix (dermal)	2625.5 mg/kg
ATEmix (inhalation-dust/mist)	2.04 mg/l

#### Unknown acute toxicity

44 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

51 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Phenol, styrenated	2100 - 6700 mg/kg (Rat)	>7940 mg/kg (Rabbit)	> 4.92 mg/L (mist) (No mortality)
1,3-Bis(aminomethyl)cyclohexane	200 - 2000 mg/kg (Rat)	= 1700 mg/kg (Rabbit)	-
Ceramic materials and wares, chemicals	-	> 2500 mg/kg (Rabbit)	> 2.3 mg/L (aerosol) (No mortality)
Cyclohexanamine, 4,4`-methylenebis-	= 380 mg/kg (Rat)	= 2110 mg/kg (Rabbit)	-
1-Piperazineethanamine	= 2140 µL/kg (Rat)	= 866 mg/kg (Rabbit)	> 890 ppm (4.7 mg/L) (mist) (No mortality)
Salicylic acid	= 891 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 0.9 mg/L (Rat)1 h

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Causes skin irritation. Classification based on data available for ingredients.		
Serious eye damage/eye irritation	Causes burns. Causes serious eye damage. Classification based on data available for ingredients.		
Respiratory or skin sensitization	May cause an allergic skin reaction.		
Germ cell mutagenicity	No information available.		
Carcinogenicity	Based on available data, the classification criteria are not met.		
	This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product.		

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Quartz	A2	Group 1	Known	Х
14808-60-7	A2 - Suspected Human			
	Carcinogen			
Glass, oxide	A4 - Not Classifiable	Group 3	-	-
65997-17-3	as a Human			
	Carcinogen (listed			
	under Synthetic			
	vitreous fibers)			
Ceramic materials and wares,	A4 - Not Classifiable	-	-	-
chemicals	as a Human			
66402-68-4	Carcinogen			

# Legend

#### ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected human carcinogen

IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to humans Group 3 - Unclassifiable as to carcinogenicity in humans NTP (National Toxicology Program) Known - Known Carcinogen Occupational Safety and Health Administration of the US Department of Labor X - Present		
Reproductive toxicity	Suspected of damaging fertility or the unborn child. Classification based on data availab for ingredients.	
STOT - single exposure	No information available.	
STOT - repeated exposure	No information available.	

Aspiration hazard No information available.

# 12. Ecological information

Ecotoxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Phenol, styrenated 61788-44-1	3.14 mg/L/72hr (Green algae)	14.8 mg/L (Zebra fish)	-	≥ 1, ≤ 10 mg/L (Daphnia magna)
1-Piperazineethanamine 140-31-8	EC50: =495mg/L (72h, Pseudokirchneriella subcapitata)	LC50: 1950 - 2460mg/L (96h, Pimephales promelas) LC50: >1000mg/L (96h, Poecilia reticulata) LC50: >=100mg/L (96h, Oncorhynchus mykiss)	-	EC50: =32mg/L (48h, Daphnia magna)
Salicylic acid 69-72-7	-	-	-	EC50: =870mg/L (48h, Daphnia magna)

Persistence and degradability No

No information available.

# **Bioaccumulation**

#### **Component Information**

Chemical name	Partition coefficient
Phenol, styrenated	3.13
61788-44-1	
1,3-Bis(aminomethyl)cyclohexane	0.783
2579-20-6	
Cyclohexanamine, 4,4`-methylenebis-	2.2
1761-71-3	
1-Piperazineethanamine	-1.48
140-31-8	
Salicylic acid	2.25
69-72-7	

Other adverse effects

No information available.

Chemical name	EU - REACH (1907/2006) - Article 59(1)	EU - REACH (1907/2006) - Endocrine
	- Candidate List of Substances of Very	Disruptor Assessment List of

	High Concern (SVHC) for Authorisation	Substances
Phenol, styrenated	-	Endocrine disrupting properties

13. Disposal consideration	IS
Disposal methods	
Waste from residues/unused products	Dispose of in accordance with federal, state and local regulations.
Contaminated packaging	Do not reuse empty containers.
California waste information	This product contains one or more substances that are listed with the State of California as a hazardous waste.
14. Transport information	
Note:	This material meets the UN/IMDG criteria as a marine pollutant. Although not required, this may also be classified as a marine pollutant in the US.
DOT UN number or ID number Proper shipping name Transport hazard class(es) Packing group Special Provisions DOT Marine Pollutant Marine pollutant Description	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III 8, 146, 173, 335, 441, IB3, T4, TP1, TP29 M Phenol, styrenated UN3082, Environmentally hazardous substance, liquid, n.o.s. (Phenol, styrenated), 9, III, Marine pollutant
<u>TDG</u> UN number or ID number Proper shipping name Transport hazard class(es) Packing group Marine pollutant Description	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III Phenol, styrenated. UN3082, Environmentally hazardous substance, liquid, n.o.s. (Phenol, styrenated), 9, III
IATA UN number or ID number UN proper shipping name IATA Technical Name Transport hazard class(es) Packing group Environmental hazards Special Provisions ERG Code Description	UN3082 Environmentally hazardous substance, liquid, n.o.s. Phenol, styrenated 9 III Yes A97, A158, A197, A215 9L UN3082, Environmentally hazardous substance, liquid, n.o.s. (Phenol, styrenated), 9, III
IMDG UN number or ID number UN proper shipping name Technical Name	UN3082 Environmentally hazardous substance, liquid, n.o.s. Phenol, styrenated

Transport hazard class(es)	9
Packing group	
Marine pollutant indicator	Μ
Marine pollutant name	Phenol, styrenated
Special Provisions	274, 335, 969
EmS-No.	F-A S-F
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Phenol, styrenated), 9, III,
	Marine pollutant

# 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

#### International Inventories

Contact supplier for inventory compliance status

#### US Federal Regulations

# SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %	
Ceramic materials and wares, chemicals - 66402-68-4	1.0	

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ceramic materials and wares, chemicals 66402-68-4	-	Х	-	-

## CAA (Clean Air Act)

This product does not contain any substances regulated as pollutants pursuant to Clean Air Act (CAA).

Chemical name	Hazardous air pollutants (HAPs)	Ozone-depleting substances (ODS)
Ceramic materials and wares, chemicals 66402-68-4	Present	-

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

# US State Regulations

## California Proposition 65

This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65
Quartz - 14808-60-7	Carcinogen

# U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Quartz 14808-60-7	Х	Х	Х
Ceramic materials and wares, chemicals 66402-68-4	Х	-	Х
1-Piperazineethanamine 140-31-8	Х	Х	Х

#### U.S. EPA Label Information

#### EPA Pesticide Registration Number Not applicable

16. Other information				
<u>NFPA</u>	Health hazards 3	Flammability 1	Instability 2	Special hazards -
HMIS	Health hazards 3*	Flammability 1	Physical hazards 2	Personal protection B

#### Key or legend to abbreviations and acronyms used in the safety data sheet

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IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous
120	Chemicals in Bulk
ICAO	International Civil Aviation Organization
IECSC	Inventory of Existing Chemical Substances in China
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organization for Standardization
KECI	Korean Existing Chemicals Inventory
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MARPOL	International Convention for the Prevention of Pollution from Ships
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOELR	No Observable Effect Loading Rate
NTP	National Toxicology Program (United States)
NZIOC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Cooperation and Development
OEL	Occupational exposure limits
OSHA	Occupational exposure infits Occupational Safety and Health Administration of the US Department of Labor
PBT	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PMT	
PPE	Persistent, Mobile and Toxic
	Personal protective equipment
QSAR RID	Quantitative Structure Activity Relationship Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
SADT	
SAR	Self-Accelerating Decomposition Temperature Structure-activity relationship
SARA	Superfund Amendments and Reauthorization Act
SDS	Superfund Amendments and Readmonzation Act
SL	Salety Data Sheet Surface Limit
STEL	Sunace Limit Short Term Exposure Limit
STOT RE	
STOT SE	Specific target organ toxicity - Repeated exposure
	Specific target organ toxicity - Single exposure
TCSI TDG	Taiwan Chemical Substance Inventory
. = •	Transport of Dangerous Goods (Canada)
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	Very Persistent and Very Mobile
As	Allergenic substance
DS	Dermal Sensitizer
Ot	Ototoxicant
pOt	Ototoxicant - potential to cause hearing disorders
PS	Photosensitizer
RS	Respiratory Sensitizer
S	Sensitizer
poS	Sensitizer - capable of causing occupational asthma
Sa	Simple asphyxiant
Sd	Skin designation
pSd	Skin designation - potential for cutaneous absorption

Sdv	Skin designation - vacated
Sk	Skin notation
dSk	Skin notation - danger of cutaneous absorption
pSk	Skin notation - potential for cutaneous absorption

#### Key literature references and sources for data used to compile the SDS

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

U.S. Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set United Nations World Health Organization (WHO)

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#### Revision Note Disclaimer

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End of Safety Data Sheet