

SAFETY DATA SHEET

Argos Concrete Products



1. IDENTIFICATION

Product Identifier Concrete Products

Synonyms: Lintels, Concrete Block, Pavers, Precast Pipe, Precast Concrete, Storm Pipe, Sanitary Pipe, precast panels

Intended use of the product: Concrete products are used in a wide variety of applications in buildings and civil engineering projects.

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2. HAZARD IDENTIFICATION

According to OSHA 29 CFR 1910.1200 HCS

Classification of the Substance or Mixture

Classification (GHS-US):

Skin Corrosion/Irritation	Category 1	H314
Skin Sensitization	Category 1	H317
Serious Eye Damage/Eye Irritation	Category 1	H318
STOT RE	Category 1	H372
Carcinogenicity	Category 1A	H350

Labeling Elements



Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) : H314 - Causes severe skin burns and eye damage.
H318 – Causes serious eye damage.
H317 – May cause an allergic skin reaction.
H372 - Causes damage to Lung through prolonged or repeated exposure Inhalation
H350 – May cause cancer.

Precautionary Statements (GHS-US) :

Prevention

P201 - Obtain special instructions before use.

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P202- Do not handle until all safety precautions have been read and understood
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
 P264- Wash thoroughly after handling.
 P270 – Do not eat, drink or smoke when using this product.
 P272- Contaminated work clothing should not be allowed out of the workplace.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301+P330+P331- If swallowed: Rinse mouth. Do not induce vomiting.
 P303+361+353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse with water/shower.
 P304+P340- If inhaled: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
 P308+P313- If exposed or concerned: Get medical attention/advice.
 P310-Immediately call a poison center or doctor
 P333+P313- If skin irritation or a rash occurs: Get medical advice/attention.
 P363- Wash contaminated clothing before reuse.

Disposal

P501- Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards Not Otherwise Classified: None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Composition Information

Name	Product Identifier (Cas#)	% (w/w)	Classification
Quartz	14808-60-7	0-90	Carc. 1A (H350) STOT RE 1 (H372)
Calcium Hydroxide	1305-62-0	15-25	Skin Irr. 1C (H314) Eye Corr. 1 (H318)
Portland cement	65997-15-1	0-10	Skin Irr. 1C (H314) Eye Corr. 1 (H318) Skin Sens. 1 (H317) STOT SE 3 (H335)

The exact percentage (concentration) of the composition has been withheld as proprietary.

4. FIRST AID MEASURES

Route	Measures
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the individual is not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Call a poison center or physician.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth with water and afterwards drink plenty of water. Get immediate medical attention.
Eye Contact	In case of contact get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 30 minutes. Chemical burns must be treated promptly by a physician.
Skin Contact	Remove contaminated clothing and shoes. Wash contaminated areas thoroughly with soap and water. Get

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medical attention if irritations or symptoms persist.

Absorption As with skin contact, remove contaminated clothing and flush with copious amounts of water. Flush affected area for at least 15 minutes to minimize potential for further absorption. Seek medical attention if significant portions of skin have been exposed.

Most Important Symptoms

May cause skin burns. May cause serious eye damage. May cause allergic skin reaction. Carcinogen; breathing crystalline silica can cause lung disease, including silicosis and lung cancer. Crystalline silica has also been associated with scleroderma and kidney disease. May cause damage to lung through prolonged repeated exposure.

Indication of any immediate medical attention and special treatment needed

Note to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. FIRE-FIGHTING MEASURES

Flammable properties

This product is not flammable or combustible.

Extinguishing Media

Use an extinguishing agent suitable for the surrounding fire.

Specific Hazards / Products of Combustion

No specific fire or explosion hazard.

Special Precautions and Protective Equipment for Firefighters

Move containers from fire area if this can be done without risk. Fire-fighters should wear appropriate protective equipment.

See Section 9 for fire properties of this chemical including flash point, autoignition temperature, and explosive limits

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust from the spilled material. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust at levels exceeding the exposure limits. See Section 8 for additional information.

Environmental Precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Containment and Clean-Up Methods

Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place dust in a closed, labeled waste container.

7. HANDLING AND STORAGE

Handling Precautions

Avoid contact with eyes, skin, or clothing. This product contains quartz, which may become airborne without a visible cloud. Avoid breathing dust. Avoid creating dusty conditions. Use only with adequate ventilation to keep exposure below recommended exposure limits. Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure by obtaining and following special instructions before use. Do not handle until all safety precautions have been read and understood. Keep in the original container or an approved alternative made from a compatible material and keep the container tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage

Keep container tightly closed in a dry and well-ventilated place. Avoid contact with water and moisture. Keep away from food,

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drink and animal feeding stuffs. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

US. ACGIH Threshold Limit Values

Components Type Value Form

Calcium Hydroxide: TWA 5 mg/m³

(CAS#1305-62-0)

Portland cement: TWA 1 mg/m³, Respirable fraction.

(CAS#65997-15-1)

Quartz : TWA 0.025 mg/m³, Respirable fraction.

(CAS#14808-60-7)

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

Components Type Value Form

Calcium Hydroxide: PEL 5 mg/m³, Respirable fraction; 15 mg/m³ Total dust

(CAS#1305-62-0)

Portland cement: PEL 5 mg/m³ Respirable fraction; 15 mg/m³ Total dust.

(CAS#65997-15-1)

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components Type Value Form

Portland cement: TWA 50 mppcf

(CAS#65997-15-1)

Quartz : TWA 0.3 mg/m³ Total dust; 0.1 mg/m³ Respirable; 2.4 mppcf Respirable.

(CAS#14808-60-7)

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

Components Type Value Form

Calcium Hydroxide: TWA 5 mg/m³

(CAS#1305-62-0)

Portland cement: TWA 10 mg/m³

(CAS#65997-15-1)

Quartz: TWA 0.025 mg/m³ Respirable particles.

(CAS#14808-60-7)

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

Components Type Value Form

Calcium Hydroxide: TWA 5 mg/m³

(CAS#1305-62-0)

Portland cement: TWA 3 mg/m³ Respirable fraction; 10 mg/m³ Total dust.

(CAS#65997-15-1)

Quartz : TWA 0.025 mg/m³ Respirable fraction.

(CAS#14808-60-7)

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

Components Type Value Form

Calcium Hydroxide: TWA 5 mg/m³

(CAS#1305-62-0)

Portland cement: TWA 10 mg/m³

(CAS#65997-15-1)

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Quartz: TWA 0.1 mg/m³ Respirable.
(CAS#14808-60-7)

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

Components Type Value Form

Calcium Hydroxide: TWA 5 mg/m³
(CAS#1305-62-0)

Portland cement: TWA 5 mg/m³ Respirable dust; 10 mg/m³ Total dust.
(CAS#65997-15-1)

Quartz : TWA 0.1 mg/m³ Respirable dust.
(CAS#14808-60-7)

Mexico. Occupational Exposure Limit Values

Components Type Value Form

Calcium Hydroxide: TWA 5 mg/m³
(CAS#1305-62-0)

Portland cement: STEL 20 mg/m³; TWA 10 mg/m³
(CAS#65997-15-1)

Quartz : TWA 0.1 mg/m³
(CAS#14808-60-7)

Engineering Controls

Use only with adequate ventilation. If user operations generate dust, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal Protective Equipment

Exposure	Equipment
Eye / Face	To prevent eye contact, wear safety glasses with side shields, safety goggles or face shields. Wearing contact lenses is not recommended.
Skin	Wear suitable protective gloves to prevent cuts and abrasions. Leather or cotton gloves are recommended when handling this material.
Respiratory	Avoid tasks which cause dust to become airborne. Use local or general ventilation to control exposure below applicable exposure limits. Use NIOSH/MSHA approved (30 CFR 11) or NIOSH approved (42 CFR 84) respirators in poorly ventilated areas, or if an applicable exposure limit is exceeded, or when dust causes discomfort or irritation.
General Hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	Comments
Appearance	Solid. Various forms and shapes	
Physical State	Solid	
Odor	Odorless	
Odor Threshold	Not available	
pH	Not available	
Melting / Freeze Point	Not available	

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Property	Value	Comments
Boiling Point And Range	Not available	
Flash Point	Not available	
Evaporation Rate	Not available	
Flammability	Not available	
Flammability Limits	Not available	
Vapor Pressure	Not available	
Vapor Density	Not available	
Specific Gravity	2.5	
Solubility	Insoluble	
Partition Coefficient	Not available	
Autoignition Temperature	Not available	
Decomposition Temperature	Not available	
Viscosity	Not available	
Percent Volatiles	Not available	

10. STABILITY AND REACTIVITY

Reactivity

Not expected to be reactive.

Stability

The product is stable under normal conditions of use, storage and transport.

Reactions / Polymerization

Not expected to occur

Conditions to Avoid

Contact with incompatible materials. Exposure to moisture may affect product quality. The product is hygroscopic and will absorb water by contact with the moisture in the air.

Incompatible Materials

None Known.

Hazardous Decomposition Products

None expected under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity (Inhalation LC50)

Calcium Hydroxide (CAS# 1305-62-0): No data available.

Quartz (CAS# 14808-60-7): No data available.

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Portland cement (CAS# 65997-15-1) : >1 mg/L (rat, 4hr)

Acute Toxicity (Oral LC50)

Calcium Hydroxide (CAS# 1305-62-0): LD50 = 7340 mg/kg rats

Quartz (CAS# 14808-60-7): Lethal dose > 15000 mg/kg; LD50 in rats is 500 mg/kg

Portland cement (CAS# 65997-15-1): No data available.

Acute Toxicity (Dermal LC50)

Calcium Hydroxide (CAS# 1305-62-0): LD50 > 2500 mg/kg

Quartz (CAS# 14808-60-7): No data available.

Portland cement (CAS# 65997-15-1): No data available.

Skin Corrosion/Irritation: May cause skin irritation; May cause serious burns in the presence of moisture.

Serious Eye Damage/Irritation: Causes serious eye damage. May cause burns in the presence of moisture.

Respiratory or Skin Sensitization: Portland cement (CAS# 65997-15-1): is reported to cause dermatitis and skin sensitization after repeated exposure.

Germ Cell Mutagenicity: No data available.

Carcinogenicity: Crystalline silica has been classified by IARC, NTP and ACGIH as a known human carcinogen and suspected human carcinogen respectively.

ACGIH Carcinogens:

Portland cement (CAS# 65997-15-1): A4 Not classifiable as a human carcinogen.

Quartz (CAS #14808-60-7): A2 Suspected human carcinogen.

IARC Monographs- Overall Evaluation of Carcinogenicity

Quartz (CAS# 14808-60-7): 1 Carcinogenic to humans.

US NTP Report on Carcinogens: Known carcinogen

Quartz (CAS# 14808-60-7): Known To Be Human Carcinogen.

US OSHA Specifically Regulated Substances: Cancer hazard

No data available.

Teratogenicity: No data available

Specific Target Organ Toxicity (Repeated Exposure): Quartz (CAS #14808-60-7): Category 1, route of exposure: inhalation, target organs: respiratory tract and organs.

Specific Target Organ Toxicity (Single Exposure): The EU Cement association classifies Portland cement (CAS# 65997-15-1): as Cat 3 for respiratory irritation based on a survey of the available literature.

Aspiration Hazard: No data available.

Potential Health Effects: Causes serious eye damage. May cause respiratory irritation. Causes severe burns. May cause an allergic skin reaction.

Chronic effects: Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Some studies show excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease in workers exposed to respirable crystalline silica. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. Danger of serious damage to health by prolonged exposure.

Crystalline silica is considered a hazard by inhalation. IARC has classified crystalline silica as a Group 1 substance, carcinogenic to humans. This classification is based on the findings of laboratory animal studies (inhalation and implantation) and

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epidemiology studies that were considered sufficient for carcinogenicity. Excessive exposure to crystalline silica can cause silicosis, a non-cancerous lung disease. Portland cement (CAS# 65997-15-1): is not classifiable as a human carcinogen.

Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. If sensitized to hexavalent chromium, a severe allergic dermal reaction may occur when subsequently exposed to very low levels.

12. ECOLOGICAL INFORMATION

Toxicity:

Data for Portland cement (Mixture)

Aquatic Toxicity- EC50350 mg/L (Exposure time: 48 h - Species: Daphnia)

Acute

Data for Component: Calcium Hydroxide (CAS#1305-62-0)

Aquatic Toxicity Acute : Gasterosteus aculeatus 96 hr LC50 = 457 mg/L
Oncorhynchus mykiss 96 hr LC50 = 50.6 mg/L
Crangon septemspinosa 96 hr LC50 = 158 mg/L
Daphnia magna 48 hr EC50 = 49.1 mg/L

Aquatic Toxicity Chronic: Crangon septemspinosa 14 d NOEC = 32 mg/L

Data for Component: Quartz (CAS#14808-60-7)

Aquatic Toxicity Daphnia magna 24 hr LL50 > 10000 mg/L

Acute : Danio rerio 96 hr LL0 = 10000 mg/L

Desmodesmus subspicatus 72 hr EC50 > 14 mg/L (similar substance)

Aquatic Toxicity No data available.

Chronic:

Persistence and Degradation: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

Other Information: No data available.

13. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Untreated waste should not be released to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe manner. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues.

Avoid dispersal of spilled material and runoff, and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

US DOT

UN Identification Number	Not regulated
Proper Shipping Name	Not available
Hazard Class and Packing Group	Not available
Shipping Label	Not available
Placard / Bulk Package	Not available
Emergency Response Guidebook Guide Number	Not available

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IATA Cargo

UN Identification Number	Not regulated
Shipping Name / Description	Not available
Hazard Class and Packing Group	Not available
ICAO Label	Not available
Packing Instructions Cargo	Not available
Max Quantity Per Package Cargo	Not available

IATA Passenger

UN Identification Number	Not regulated
Shipping Name / Description	Not available
Hazard Class and Packing Group	Not available
ICAO Label	Not available
Packing Instructions Passenger	Not available
Max Quantity Per Package	Not available

IMDG

UN Identification Number	Not regulated
Shipping Name / Description	Not available
Hazard Class and Packing Group	Not available
IMDG Label	Not available
EmS Number	Not available
Marine Pollutant	Not available

15. REGULATORY INFORMATION

OSHA Hazard Communication Standard

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. Federal, State, and Local Regulatory Information

U.S. Toxic Substances Control Act

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

This product is not listed as a CERCLA substance.

SARA Section 313- Supplier Notification

This product does not contain any toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Immediate Hazard (Acute) - Yes

Delayed Hazard (Chronic) – Yes

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

Section 302 extremely hazardous substance (40 CFR 355, Appendix A)-No

Drug Enforcement Administration (DEA) (21 CFR1308.11-15)-Not controlled

State regulations WARNING: This product contains chemical(s) known to the State of California to cause cancer.

US - California Hazardous Substances (Director's):

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Calcium Hydroxide (CAS 1305-62-0)

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT):

Quartz (CAS 14808-60-7)

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Quartz (CAS 14808-60-7) Listed: October 1, 1988 Carcinogenic.

US - Massachusetts RTK - Substance: Listed substance

Calcium Hydroxide (CAS 1305-62-0)

Portland cement (CAS 65997-15-1)

Quartz (CAS 14808-60-7)

US - New Jersey RTK - Substances: Listed substance

Calcium Hydroxide (CAS 1305-62-0)

Portland cement (CAS 65997-15-1)

Quartz (CAS 14808-60-7)

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Calcium Hydroxide (CAS 1305-62-0)

Portland cement (CAS 65997-15-1)

Quartz (CAS 14808-60-7)

Canadian Regulatory Information

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

D2A - Other Toxic Effects-VERY TOXIC

D2B - Other Toxic Effects-TOXIC

E – Corrosive

WHMIS labeling



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

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

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Mexico regulations- This safety data sheet was prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2000).

16. OTHER INFORMATION

HMIS® ratings Health: 3*

Flammability: 0

Physical hazard: 0

NFPA ratings

Health: 3

Flammability: 0

Instability: 0

Version:

2016.01.20

Issue Date

1/20/2016

Prior Issue Date

5/27/2015

Description of Revisions

Revise to meet Globally Harmonized System for chemical hazard communication requirements pursuant to OSHA regulatory revisions 77 FR 17884, March 26, 2012.

Notice to reader

While the information provided in this safety data sheet is believed to provide a useful summary of the hazards of portland cement as it is commonly used, the sheet cannot anticipate and provide all of the information that might be needed in every situation. Inexperienced product users should obtain proper training before using this product. In particular, the data furnished in this sheet do not address hazards that may be posed by other materials mixed with portland cement to produce portland cement products. Users should review other relevant material safety data sheets before working with this portland cement or working on portland cement products, for example, portland cement concrete.

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Abbreviations

ACGIH — American Conference of Governmental Industrial Hygienists

CAS#— Chemical Abstract Service

CERCLA — Comprehensive Emergency Response and Comprehensive Liability Act

CFR — Code of Federal Regulations

DOT — Department of Transportation

GHS — Globally Harmonized System

HEPA — High Efficiency Particulate Air

IATA — International Air Transport Association

IARC — International Agency for Research on Cancer

IMDG — International Maritime Dangerous Goods

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NIOSH — National Institute of Occupational Safety and Health
NOEC — No Observed Effect Concentration
NTP — National Toxicology Program
OSHA — Occupational Safety and Health Administration
PEL — Permissible Exposure Limit
REL — Recommended Exposure Limit
RQ — Reportable Quantity
SARA — Superfund Amendments and Reauthorization Act
SDS — Safety Data Sheet
TLV — Threshold Limit Value
TPQ — Threshold Planning Quantity
TSCA — Toxic Substances Control Act
TWA — Time-Weighted Average
UN — United Nations

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** End of Safety Data Sheet **