



Safety Data Sheet

Material Name: Platia™

SDS ID: 01051_Canada

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

Platia™

Synonyms

Mirrored Float Glass.

Chemical Family

Glass

Product Description

This material is considered an 'article'. The end use is dependent upon the manufactured shape and design, and this article will not pose an exposure hazard under normal conditions.

Product Use Recommended Use

Glass. This material is an article.

Restrictions on Use

None known.

Details of the supplier of the safety data sheet

Vitro Flat Glass LLC (Vitro)

400 Guys Run Road

Cheswick, PA 15024

Technical Phone Number: 1-855-887-6457 (9:00 AM – 4:00 PM EST)

Emergency Phone Number: 1-866-290-7653

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with Schedule 1 of Hazardous Products Regulations (HPR) (SOR/2015-17)

None needed according to classification criteria.

GHS Label Elements

Symbol(s)

None needed according to classification criteria.

Signal Word

None needed according to classification criteria

Hazard Statement(s)

None needed according to classification criteria.

Precautionary Statement(s)

Prevention

None needed according to classification criteria.

Response

None needed according to classification criteria.

Storage

None needed according to classification criteria.

Disposal

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

Other hazards

Sanding and grinding this article can generate nuisance dust particles. Sanding and grinding dusts may be irritating to eyes and respiratory system.



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Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
65997-17-3	Glass, oxide, chemicals	60-100
1314-13-2	Zinc oxide (ZnO)	0.122-0.237
155-04-4	Zinc mercaptobenzothiazole	0.056-0.108
7440-22-4	Silver	0.007-0.013

Further information

Component Related Regulatory Information: This product may be regulated and have exposure limits as identified in Section 8. Processing of this article may produce dusts or fumes which are considered hazardous. Activities that generate dust from these coated glass products should be evaluated to determine if any regulatory exposure limits are exceeded. If exposure limits are exceeded for dust/metal, appropriate engineering controls (e.g., ventilation/HEPA filters) and/or personal protective equipment (e.g., respirators) should be provided. Composition consisting primarily of oxides of silicon with lesser quantities of other selected oxides common to soda-lime glasses, fused into an amorphous vitreous state. Any concentration shown as a range is to protect confidentiality or is due to batch variation. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4 - FIRST AID MEASURES

Inhalation

(Sanding and grinding dust): May cause transient, mechanical irritation. Move person to non-contaminated air. Call a physician if symptoms persist.

Skin

(Sanding and grinding dust): May cause transient, mechanical irritation. Cuts or abrasions should be treated promptly with thorough cleansing of the affected area.

Eyes

(Sanding and grinding dust): In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion

Not a likely route of exposure. However, if the material is swallowed, injuries from glass particles may result. Do not induce vomiting; get immediate medical attention. (Sanding and grinding dust): May cause transient, mechanical irritation.

Most Important Symptoms/Effects

Acute

No information on significant adverse effects.

Delayed

No information on significant adverse effects.

Note to Physicians

Treat symptomatically.



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Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Use methods for the surrounding fire.

Unsuitable Extinguishing Media

None identified.

Special Hazards Arising from the Chemical

This material will not burn.

Hazardous Combustion Products

None known.

Fire Fighting Measures

Move material from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out.

Special Protective Equipment and Precautions for Firefighters

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up

Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusts. Collect breakage or dust using a vacuum cleaner with a HEPA filter. Place in a closed container. Regulations vary. Consult local authorities before disposal. Glass products may be recycled.

Environmental Precautions

Do not flush into sanitary sewer systems, drains or surface water.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

(Sanding and grinding dust): Do not inhale dusts. Avoid contact with skin and eyes. Wash thoroughly after handling. Avoid generation of airborne dusts. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Put on appropriate personal protective equipment (see Section 8). Sharp edges of glass may cause mechanical injury. Contact with rough or sharp edges may cause cuts or abrasions. Take care with items that are sharp or heavy. These safety concerns should be addressed with proper personal protective equipment to protect oneself against any sharp edges, including those formed by accidental glass fracture during handling. Sanding (a.k.a. seaming or edging) any sharp glass edges to produce rounded edges also reduces the hazards of being cut by sharp edges.

Conditions for Safe Storage, Including any Incompatibilities

None needed according to classification criteria.

Store in a dry place away from excessive moisture and exhaust fumes from fork trucks or other such equipment.

Support glass in cases on both sides when stored vertically. Glass packs and open cases should be stored at a 3° to 5° lean angle to prevent glass from falling forward.

Incompatible Materials

None known.



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Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Glass, oxide, chemicals	65997-17-3
Alberta	10 mg/m ³ TWA (total); 3 mg/m ³ TWA respirable (related to Particulates not otherwise classified (PNOC))
British Columbia	10 mg/m ³ TWA (nuisance dust) total dust ; 3 mg/m ³ TWA (nuisance dust) respirable fraction (related to Particulates not otherwise classified (PNOC))
Manitoba	10 mg/m ³ TWA inhalable particles, recommended ; 3 mg/m ³ TWA respirable particles, recommended (related to Particulates not otherwise classified (PNOC))
New Brunswick	3 mg/m ³ TWA particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction ; 10 mg/m ³ TWA particulate matter containing no Asbestos and <1% Crystalline silica, inhalable fraction (related to Particulates not otherwise classified (PNOC))
Northwest Territories	10 mg/m ³ TWA (insoluble or poorly soluble) inhalable fraction ; 3 mg/m ³ TWA (insoluble or poorly soluble) respirable fraction (related to Particulates not otherwise classified (PNOC))
	20 mg/m ³ STEL (insoluble or poorly soluble) inhalable fraction ; 6 mg/m ³ STEL (insoluble or poorly soluble) respirable fraction (related to Particulates not otherwise classified (PNOC))
Nova Scotia	10 mg/m ³ TWA inhalable particles, recommended ; 3 mg/m ³ TWA respirable particles, recommended (related to Particulates not otherwise classified (PNOC))
Nunavut	10 mg/m ³ TWA (insoluble or poorly soluble) inhalable fraction ; 3 mg/m ³ TWA (insoluble or poorly soluble) respirable fraction (related to Particulates not otherwise classified (PNOC))
	20 mg/m ³ STEL (insoluble or poorly soluble) inhalable fraction ; 6 mg/m ³ STEL (insoluble or poorly soluble) respirable fraction (related to Particulates not otherwise classified (PNOC))
Ontario	10 mg/m ³ TWA inhalable ; 3 mg/m ³ TWA respirable (related to Particulates not otherwise classified (PNOC))
Prince Edward Island	10 mg/m ³ TWA inhalable particles, recommended ; 3 mg/m ³ TWA respirable particles, recommended (related to Particulates not otherwise classified (PNOC))
Quebec	10 mg/m ³ TWAEV (including dust, inert or nuisance particulates ;containing no Asbestos and <1% Crystalline silica) total dust (related to Particulates not otherwise classified (PNOC))



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Saskatchewan	10 mg/m ³ TWA (insoluble or poorly soluble) inhalable fraction ; 3 mg/m ³ TWA (insoluble or poorly soluble) respirable fraction (related to Particulates not otherwise classified (PNOC))
	20 mg/m ³ STEL (insoluble or poorly soluble) inhalable fraction ; 6 mg/m ³ STEL (insoluble or poorly soluble) respirable fraction (related to Particulates not otherwise classified (PNOC))
Yukon	30 mppcf TWA dust or fibrous ; 10 mg/m ³ TWA dust or fibrous
ACGIH:	10 mg/m ³ TWA inhalable particles, recommended ; 3 mg/m ³ TWA respirable particles, recommended (related to Particulates not otherwise classified (PNOC))
Zinc oxide (ZnO)	1314-13-2
Alberta	2 mg/m ³ TWA respirable
	10 mg/m ³ STEL respirable
British Columbia	2 mg/m ³ TWA respirable
	10 mg/m ³ STEL respirable
Manitoba	2 mg/m ³ TWA respirable particulate matter
New Brunswick	10 mg/m ³ TWA particulate matter containing no Asbestos and <1% Crystalline silica, dust ; 5 mg/m ³ TWA fume
	10 mg/m ³ STEL fume
Northwest Territories	2 mg/m ³ TWA dust and fume; respirable fraction
	10 mg/m ³ STEL dust and fume; respirable fraction
Nova Scotia	2 mg/m ³ TWA respirable particulate matter
	10 mg/m ³ STEL respirable particulate matter
Nunavut	2 mg/m ³ TWA dust and fume; respirable fraction
	10 mg/m ³ STEL dust and fume; respirable fraction
Ontario	2 mg/m ³ TWA respirable
	10 mg/m ³ STEL respirable



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Prince Edward Island	2 mg/m3 TWA respirable particulate matter
	10 mg/m3 STEL respirable particulate matter
Quebec	10 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica) total dust ; 5 mg/m3 TWAEV fume
	10 mg/m3 STEV fume
Saskatchewan	2 mg/m3 TWA dust and fume, respirable fraction
	10 mg/m3 STEL dust and fume, respirable fraction
Yukon	5 mg/m3 TWA fume ; 30 mppcf TWA dust ; 10 mg/m3 TWA dust
	10 mg/m3 STEL fume
ACGIH:	2 mg/m3 TWA respirable particulate matter
	10 mg/m3 STEL respirable particulate matter
Silver	7440-22-4
Alberta	0.1 mg/m3 TWA
British Colombia	0.01 mg/m3 TWA
	0.03 mg/m3 STEL
Manitoba	0.1 mg/m3 TWA dust and fume
New Brunswick	0.1 mg/m3 TWA
Northwest Territories	0.1 mg/m3 TWA (metal)
	0.3 mg/m3 STEL (metal)
Nova Scotia	0.1 mg/m3 TWA dust and fume
Nunavut	0.1 mg/m3 TWA (metal)
	0.3 mg/m3 STEL (metal)
Ontario	0.1 mg/m3 TWA dust and fume
Prince Edward Island	0.1 mg/m3 TWA dust and fume



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Quebec	0.1 mg/m3 TWAEV
Saskatchewan	0.1 mg/m3 TWA
	0.3 mg/m3 STEL
Yukon	0.01 mg/m3 TWA
	0.03 mg/m3 STEL
ACGIH:	0.1 mg/m3 TWA dust and fume

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product's components.

Engineering Controls

If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. The ventilation system should be equipped with a HEPA (High Efficiency Particulate Air) filter with efficiency greater than 99.9%.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear safety glasses with side shields.

Skin Protection

Wear leather or other appropriate work gloves, if necessary for type of operation. Use of coveralls is recommended.

Respiratory Protection

(Sanding and grinding dust). If permissible levels are exceeded, use NIOSH approved dust respirator. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Glove Recommendations

Anti-lacerative gloves are recommended.

Protective Materials

Use good hygiene practices when handling this material including changing and laundering work clothing after use.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	clear glass	Physical State	solid
Odor	odorless	Color	Not available
Odor Threshold	Not available	pH	Not available
Melting Point	685 - 740 °C	Boiling Point	Not available
Boiling Point Range	Not available	Freezing point	Not available
Evaporation Rate	Not available	Flammability (solid, gas)	Not available
Autoignition Temperature	Not available	Flash Point	Not available



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Lower Explosive Limit	Not available	Decomposition temperature	Not available
Upper Explosive Limit	Not available	Vapor Pressure	Not available
Vapor Density (air=1)	Not available	Specific Gravity (water=1)	Not available
Water Solubility	(Insoluble)	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Kinematic viscosity	Not available
Solubility (Other)	Not available	Density	2.5 g/cm3
Physical Form	solid	Molecular Weight	Not available

Section 10 - STABILITY AND REACTIVITY

Reactivity

No hazard expected.

Chemical Stability

Stable.

Possibility of Hazardous Reactions

None known.

Conditions to Avoid

None known.

Incompatible Materials

None known.

Hazardous decomposition products

None known.

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

(Sanding and grinding dust): Dusts of this product may cause irritation of the nose, throat, and respiratory tract. When inhaled in very large amounts, damage to the lung can occur.

Skin Contact

(Sanding and grinding dust): Dust or powder may irritate the skin. Mechanical rubbing may increase skin irritation.

Eye Contact

(Sanding and grinding dust): Dust or powder may irritate eye tissue. Rubbing may cause abrasion of cornea.

Ingestion

(Sanding and grinding dust). May cause temporary irritation of the throat, stomach, and gastrointestinal tract.

Acute and Chronic Toxicity

(Sanding and grinding dust): Dusts of this product may cause irritation of the nose, throat, and respiratory tract. Ingestion may cause transient irritation of throat, stomach and gastrointestinal tract. Inhalation may cause coughing, nose and throat irritation, and sneezing. Higher exposures may cause difficulty breathing, congestion, and chest tightness. When inhaled in very large amounts, damage to the lung can occur.

Component Analysis - LD50/LC50



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The components of this material have been reviewed in various sources and the following selected endpoints are published:

Zinc oxide (ZnO) (1314-13-2)

Oral LD50 Rat >5000 mg/kg (in water ;no deaths occurred)

Zinc mercaptobenzothiazole (155-04-4)

Oral LD50 Rat 5505 mg/kg

Dermal LD50 Rabbit >2000 mg/kg (no deaths occurred)

Silver (7440-22-4)

Oral LD50 Rat >5000 mg/kg

Dermal LD50 Rat >2000 mg/kg (males)

Product Toxicity Data

Acute Toxicity Estimate

Dermal	> 2000 mg/kg
Oral	> 2000 mg/kg

Immediate Effects

(Sanding and grinding dust): Dust or powder may be irritating to the eyes, skin, respiratory system and gastrointestinal tract.

Delayed Effects

No information on significant adverse effects.

Irritation/Corrosivity Data

(Sanding and grinding dust): respiratory tract irritation, skin irritation, eye irritation.

Respiratory Sensitization

No information available for the product.

Dermal Sensitization

No information available for the product.

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA.

Germ Cell Mutagenicity

No information available for the product.

Tumorigenic Data

No data available

Reproductive Toxicity

No information available for the product.

Specific Target Organ Toxicity - Single Exposure

No target organs identified.

Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

Aspiration hazard

No information available for the product.

Medical Conditions Aggravated by Exposure

No data available.

Additional Data

Under normal conditions of use for this product, the likelihood of inhaling or ingesting amounts necessary for adverse effects to occur is very small.



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Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

No information available for the product.

Component Analysis - Aquatic Toxicity

Silver	7440-22-4
Fish:	LC50 96 h Pimephales promelas 0.00155 - 0.00293 mg/L [static]; LC50 96 h Oncorhynchus mykiss 0.0062 mg/L [flow-through]; LC50 96 h Lepomis macrochirus 0.064 mg/L [static]
Invertebrate:	EC50 48 h Daphnia magna 0.00024 mg/L [Static] EPA

Fish Toxicity

No information available.

Bioaccumulative Potential

No information available for the product.

Mobility

No information is available for the product.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Waste must be handled in accordance with all applicable regulations. The generation of waste should be avoided or minimized wherever possible.

Section 14 - TRANSPORT INFORMATION

IATA Information:

Further information: Not regulated as dangerous goods

ICAO Information:

Further information: Not regulated as dangerous goods

IMDG Information:

Further information: Not regulated as dangerous goods

US DOT Information:

Further information: Not regulated as dangerous goods

TDG Information:

Further information: Not regulated as dangerous goods

International Bulk Chemical Code

This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.



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Section 15 - REGULATORY INFORMATION

Canada Regulations

CEPA - Priority Substances List

None of this product's components are on the list.

Ozone Depleting Substances

None of this product's components are on the list.

Council of Ministers of the Environment - Soil Quality Guidelines

Silver	7440-22-4
Residential and Parkland	20 mg/kg (dry weight)

Council of Ministers of the Environment - Water Quality Guidelines

Silver	7440-22-4
Marine Aquatic Life	7.5 µg/L (short-term exposure, guideline is not applicable to Silver nanoparticles)

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Silver	7440-22-4
SARA 313:	1 % de minimis concentration
CERCLA:	1000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 454 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)

SARA Section 311/312 (40 CFR 370 Subparts B and C) 2016 reporting categories

Acute Health: Yes Chronic Health: Yes Fire: No Pressure: No Reactivity: No

Component Analysis - Inventory

Glass, oxide, chemicals (65997-17-3)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

Zinc oxide (ZnO) (1314-13-2)



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US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

Zinc mercaptobenzothiazole (155-04-4)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

Silver (7440-22-4)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes

Section 16 - OTHER INFORMATION

NFPA Ratings

Health: 1 Fire: 0 Instability: 0 Other:

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Issue Date

8/23/2018

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN -



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European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) , KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; Ne- Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL - Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

Other Information

Disclaimer:

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.