

# Permite; Lojic +; GS-80; GS-80 Spherical; F400; New Ultrafine; SDI Admix; SDI Spherical; SDI Alloy, and Ultratabs- Alloy powder and Tablets

### **SDI Limited**

Version No: **9.1**Safety Data Sheet according to WHMIS 2015 requirements

Issue Date: **10/03/2023**Print Date: **20/11/2023**L.GHS.CAN.EN

### **SECTION 1 Identification**

### **Product Identifier**

Product name	Permite; Lojic +; GS-80; GS-80 Spherical; F400; New Ultrafine; SDI Admix; SDI Spherical; SDI Alloy, and Ultratabs- Alloy powder and Tablets
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

### Recommended use of the chemical and restrictions on use

Relevant identified uses For filling of cavitated teeth by dental professionals.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	SDI Limited	SDI (North America) Inc.	SDI HOLDINGS PTY LTD DO		
Address 3-15 Brunsdon Street Bayswater VIC 3153 1279 Hamilton Parkway Itasca IL 60143 United States			Rua Dr. Reinaldo Schmithausen 3141 – Cordeiros Itajaí – SC – CEP 88310-004 Brazil		
Telephone	+61 3 8727 7111	+1 630 361 9200	+55 11 3092 7100		
Fax	+61 3 8727 7222	Not Available	Not Available		
Website	www.sdi.com.au	www.sdi.com.au	http://www.sdi.com.au/		
Email	info@sdi.com.au	info@sdi.com.au USA.Canada@sdi.com.au E			
Registered company name	SDI Germany GmbH				
Address	Hansestrasse 85 Cologne D-51149 Germany				
Telephone	+49 0 2203 9255 0				
Fax	+49 0 2203 9255 200				

### Emergency phone number

Website

Email

Emergency priorie number					
Association / Organisation	SDI Limited	CHEMWATCH EMERGENCY RESPONSE (24/7)			
Emergency telephone numbers 131126 Poisons Information Centre		+1 867 670 2867			
Other emergency telephone numbers	+61 3 8727 7111	+61 3 9573 3188			

Once connected and if the message is not in your preferred language then please dial 01

www.sdi.com.au

germany@sdi.com.au

Une fois connecté et si le message n'est pas dans votre langue préférée alors s'il vous plaît cadran 07

### SECTION 2 Hazard(s) identification

### Classification of the substance or mixture

NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification

Acute Toxicity (Oral) Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2A, Germ Cell Mutagenicity Category 1A, Specific Target Organ Toxicity - Repeated Exposure Category 2, Hazardous to the Aquatic Environment Acute Hazard Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 1

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### Label elements

Hazard pictogram(s)







Signal word

Danger

### Hazard statement(s)

H300	Fatal if swallowed.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H340	May cause genetic defects.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H410	Very toxic to aquatic life with long lasting effects.	

### Physical and Health hazard(s) not otherwise classified

Not Applicable

### Precautionary statement(s) Prevention

P201	Obtain special instructions before use.		
P260	Do not breathe dust/fume.		
P264	Wash all exposed external body areas thoroughly after handling.		
P270	Do not eat, drink or smoke when using this product.		
P280	Wear protective gloves, protective clothing, eye protection and face protection.		
P273	Avoid release to the environment.		
P272	Contaminated work clothing should not be allowed out of the workplace.		

### Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.			
P308+P313	IF exposed or concerned: Get medical advice/ attention.			
P330	Rinse mouth.			
P302+P352	IF ON SKIN: Wash with plenty of water and soap.			
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P314	Get medical advice/attention if you feel unwell.			
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.			
P337+P313	If eye irritation persists: Get medical advice/attention.			
P362+P364	Take off contaminated clothing and wash it before reuse.			
P391	Collect spillage.			

### Precautionary statement(s) Storage

P405 Store locked up.

### Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

### **SECTION 3 Composition / information on ingredients**

### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name		
Not Available		tablets and alloy powder contains		
7440-22-4	40-70	silver		
7440-31-5	20-30	<u>tin</u>		
7440-50-8	5-30	copper		
7440-74-6	0-0.5	indium		
7440-66-6	0-0.5	zinc		

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

### **SECTION 4 First-aid measures**

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Description of first aid measures

Eye Contact	If this product comes in contact with the eyes:  Wash out immediately with fresh running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Seek medical attention without delay; if pain persists or recurs seek medical attention.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs:  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.
Inhalation	If dust is inhaled, remove from contaminated area.  Encourage patient to blow nose to ensure clear breathing passages.  Ask patient to rinse mouth with water but to not drink water.  Seek immediate medical attention.
Ingestion	Seek medical attention. Ingestion may result in nausea, abdominal irritation, pain and vomiting

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

Treat symptomatically.

### **SECTION 5 Fire-fighting measures**

### Extinguishing media

- ► Water spray or fog.
- ► Foam.
- ► Dry chemical powder.
- ► BCF (where regulations permit).
- Carbon dioxide.

Special hazards arising from the	he substrate or mixture
Fire Incompatibility	None known.
Special protective equipment a	and precautions for fire-fighters
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
Fire/Explosion Hazard	May emit poisonous fumes.  Articles and manufactured articles may constitute a fire hazard where polymers form their outer layers or where combustible packaging remains in place.  Certain substances, found throughout their construction, may degrade or become volatile when heated to high temperatures. This may create a secondary hazard.

### **SECTION 6 Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

See section 8

### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing dust and contact with skin and eyes.</li> <li>Wear protective clothing, gloves, safety glasses and dust respirator.</li> <li>Use dry clean up procedures and avoid generating dust.</li> <li>Sweep up, shovel up or</li> <li>Vacuum up (consider explosion-proof machines designed to be grounded during storage and use).</li> <li>Place spilled material in clean, dry, sealable, labelled container.</li> </ul>
Major Spills	Minor hazard.  Clear area of personnel.  Alert Fire Brigade and tell them location and nature of hazard.  Control personal contact with the substance, by using protective equipment as required.  Prevent spillage from entering drains or water ways.  Contain spill with sand, earth or vermiculite.  Collect recoverable product into labelled containers for recycling.  Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal.  Wash area and prevent runoff into drains or waterways.  If contamination of drains or waterways occurs, advise emergency services.

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### **SECTION 7 Handling and storage**

### Precautions for safe handling

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked.
- DO NOT allow material to contact humans, exposed food or food utensils.
- Avoid contact with incompatible materials. Safe handling
  - ▶ When handling, **DO NOT** eat, drink or smoke.
  - ► Keep containers securely sealed when not in use.
  - Avoid physical damage to containers.
  - Always wash hands with soap and water after handling.
  - ▶ Work clothes should be laundered separately. Launder contaminated clothing before re-use.
  - Use good occupational work practice.
  - Observe manufacturer's storage and handling recommendations contained within this SDS.
  - Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

Other information

▶ Store away from incompatible materials. Store in a dry and well ventilated-area, away from heat and sunlight.

### Conditions for safe storage, including any incompatibilities

Suitable container	DO NOT repack. Use containers supplied by manufacturer only.  Store below 25 deg. C.		
Storage incompatibility	Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.		

### **SECTION 8 Exposure controls / personal protection**

### **Control parameters**

### Occupational Exposure Limits (OEL)

### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances	silver	Silver, metal and soluble compounds (as Ag)	0.01 mg/m3	0.03 mg/m3	Not Available	Not Available
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits	silver	Silver, metal	0.1 mg/m3	0.3 mg/m3	Not Available	Not Available
Canada - Manitoba Occupational Exposure Limits	silver	Not Available	0.01 mg/m3	Not Available	Not Available	TLV® Basis: Argyria
Canada - Manitoba Occupational Exposure Limits	silver	Not Available	0.1 mg/m3	Not Available	Not Available	TLV® Basis: Argyria
Canada - Prince Edward Island Occupational Exposure Limits	silver	Silver, and compounds - Metal, dust and fume	0.1 mg/m3	Not Available	Not Available	TLV® Basis: Argyria
Canada - Prince Edward Island Occupational Exposure Limits	silver	Silver, and compounds - Soluble compounds, as Ag	0.01 mg/m3	Not Available	Not Available	TLV® Basis: Argyria
Canada - British Columbia Occupational Exposure Limits	silver	Silver and Compounds (as Ag)	0.01 mg/m3	0.03 mg/m3	Not Available	Not Available
Canada - Ontario Occupational Exposure Limits	silver	Particles (Insoluble or Poorly Soluble) Not Otherwise Specified (PNOS) (Respirable fraction)	3 mg/m3	Not Available	Not Available	(R) Respirable fraction: means that size fraction of the airborne particulate deposited in the gas-exchange region of the respiratory tract and collected during air sampling with a particle size-selective device that, (a) meets the ACGIH particle size-selective sampling criteria for airborne particulate matter; and (b) has the cut point of 4 µm at 50 per cent collection efficiency.
Canada - Ontario Occupational Exposure Limits	silver	Particles (Insoluble or Poorly Soluble) Not Otherwise Specified (PNOS) (Inhalable fraction)	10 mg/m3	Not Available	Not Available	(I) Inhalable fraction: means that size fraction of the airborne particulate deposited anywhere in the respiratory tract and collected during air sampling with a particle size-selective device that, (a) meets the ACGIH particle size-selective sampling criteria for airborne particulate matter; and (b) has the cut point of 100 μm at 50 per cent collection efficiency.
Canada - Nova Scotia Occupational Exposure Limits	silver	Silver - Elemental / Metal	0.1 mg/m3	Not Available	Not Available	TLV Basis: argyria
Canada - Alberta Occupational Exposure Limits	silver	Silver: Metal	0.1 mg/m3	Not Available	Not Available	Not Available
Canada - Northwest Territories Occupational Exposure Limits	silver	Silver, metal	0.1 mg/m3	0.3 mg/m3	Not Available	Not Available
Canada - Quebec Permissible Exposure Values for Airborne Contaminants	silver	Silver: Metal	0.1 mg/m3	Not Available	Not Available	Not Available

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Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances	tin	Tin, organic compounds (as Sn) - Skin	0.1 mg/m3	0.2 mg/m3	Not Available	Not Available
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits	tin	Tin, (as Sn):	Not Available	Not Available	Not Available	Not Available
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits	tin	Tin, (as Sn): metal	2 mg/m3	4 mg/m3	Not Available	Not Available
Canada - Prince Edward Island Occupational Exposure Limits	tin	Tin, and inorganic compounds, excluding Tin hydride, as Sn - Metal	2 mg/m3	Not Available	Not Available	TLV® Basis: Pneumoconiosis (or Stannosis)
Canada - British Columbia Occupational Exposure Limits	tin	Tin - Metal	2 mg/m3	Not Available	Not Available	Not Available
Canada - Ontario Occupational Exposure Limits	tin	Tin, as Sn - Metal	2 mg/m3	Not Available	Not Available	Not Available
Canada - Nova Scotia Occupational Exposure Limits	tin	Tin - Metal	2 mg/m3	Not Available	Not Available	Not Available
Canada - Alberta Occupational Exposure Limits	tin	Tin, as Sn: Metal	2 mg/m3	Not Available	Not Available	Not Available
Canada - Northwest Territories Occupational Exposure Limits	tin	Tin, (as Sn): metal	2 mg/m3	4 mg/m3	Not Available	Not Available
Canada - Quebec Permissible Exposure Values for Airborne Contaminants	tin	Tin: Metal	2 mg/m3	Not Available	Not Available	Not Available
Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances	copper	Copper - Dusts and mists (as Cu)	1 mg/m3	2 mg/m3	Not Available	Not Available
Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances	copper	Copper - Fume	0.2 mg/m3	0.2 mg/m3	Not Available	Not Available
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits	copper	Copper, (as Cu): fume	0.2 mg/m3	0.6 mg/m3	Not Available	Not Available
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits	copper	Copper, (as Cu): dusts and mists	1 mg/m3	3 mg/m3	Not Available	Not Available
Canada - Manitoba Occupational Exposure Limits	copper	Not Available	0.2 mg/m3	Not Available	Not Available	TLV® Basis: Irr; GI; metal fume fever; BEI
Canada - Manitoba Occupational Exposure Limits	copper	Not Available	1 mg/m3	Not Available	Not Available	TLV® Basis: Irr; GI; metal fume fever; BEI
Canada - Prince Edward Island Occupational Exposure Limits	copper	Copper - Dusts and mists, as Cu	1 mg/m3	Not Available	Not Available	TLV® Basis: Irr; GI; metal fume fever; BEI
Canada - Prince Edward Island Occupational Exposure Limits	copper	Copper - Fume, as Cu	0.2 mg/m3	Not Available	Not Available	TLV® Basis: Irr; GI; metal fume fever; BEI
Canada - British Columbia Occupational Exposure Limits	copper	Copper - Fume, as Cu	0.2 mg/m3	Not Available	Not Available	Not Available
Canada - British Columbia Occupational Exposure Limits	copper	Copper - Dusts and mists, as Cu	1 mg/m3	Not Available	Not Available	Not Available
Canada - Ontario Occupational Exposure Limits	соррег	Particles (Insoluble or Poorly Soluble) Not Otherwise Specified (PNOS) (Respirable fraction)	3 mg/m3	Not Available	Not Available	(R) Respirable fraction: means that size fraction of the airborne particulate deposited in the gas-exchange region of the respiratory tract and collected during air sampling with a particle size-selective device that, (a) meets the ACGIH particle size-selective sampling criteria for airborne particulate matter; and (b) has the cut point of 4 µm at 50 per cent collection efficiency.
Canada - Ontario Occupational Exposure Limits	copper	Particles (Insoluble or Poorly Soluble) Not Otherwise Specified (PNOS) (Inhalable fraction)	10 mg/m3	Not Available	Not Available	(I) Inhalable fraction: means that size fraction of the airborne particulate deposited anywhere in the respiratory tract and collected during air sampling with a particle size-selective device that, (a) meets the ACGIH particle size-selective sampling criteria for airborne particulate matter; and (b) has the cut point of 100 µm at 50 per cent collection efficiency.
Canada - Nova Scotia Occupational Exposure Limits	copper	Copper - Fume (as Cu)	0.2 mg/m3	Not Available	Not Available	TLV Basis: irritation; GI; metal fume fever
Canada - Nova Scotia Occupational Exposure Limits	copper	Copper - Dusts and/or mists (as Cu)	1 mg/m3	Not Available	Not Available	TLV Basis: irritation; GI; metal fume fever
Canada - Nova Scotia Occupational Exposure Limits	copper	Particles (Insoluble or Poorly Soluble) [NOS] Respirable particles	3 mg/m3	Not Available	Not Available	See Appendix B current TLV/BEI Book

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Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Canada - Nova Scotia Occupational Exposure Limits	copper	Particles (Insoluble or Poorly Soluble) [NOS] Inhalable particles	10 mg/m3	Not Available	Not Available	See Appendix B current TLV/BEI Book
Canada - Alberta Occupational Exposure Limits	copper	Copper: Fume	0.2 mg/m3	Not Available	Not Available	Not Available
Canada - Alberta Occupational Exposure Limits	copper	Copper: Dusts/mists, as Cu	1 mg/m3	Not Available	Not Available	Not Available
Canada - Northwest Territories Occupational Exposure Limits	copper	Copper, (as Cu): dusts and mists	1 mg/m3	3 mg/m3	Not Available	Not Available
Canada - Northwest Territories Occupational Exposure Limits	copper	Copper, (as Cu): fume	0.2 mg/m3	0.6 mg/m3	Not Available	Not Available
Canada - Quebec Permissible Exposure Values for Airborne Contaminants	copper	Copper, dusts & mists (as Cu)	1 mg/m3	Not Available	Not Available	Not Available
Canada - Quebec Permissible Exposure Values for Airborne Contaminants	copper	Copper, fume (as Cu)	0.2 mg/m3	Not Available	Not Available	Not Available
Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances	indium	Indium and compounds (as In)	0.1 mg/m3	0.3 mg/m3	Not Available	Not Available
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits	indium	Indium and Compounds, (as In)	0.1 mg/m3	0.3 mg/m3	Not Available	T20 (Indium pho-sphide)
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits	indium	Particles (Insoluble or Poorly Soluble) Not Otherwise Specified: Inhalable fraction++	10 mg/m3	20 mg/m3	Not Available	Not Available
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits	indium	Particles (Insoluble or Poorly Soluble) Not Otherwise Specified: Respirable fraction++	3 mg/m3	6 mg/m3	Not Available	Not Available
Canada - Manitoba Occupational Exposure Limits	indium	Not Available	0.1 mg/m3	Not Available	Not Available	TLV® Basis: Pulm edema; pneumonitis; dental erosion; malaise
Canada - Prince Edward Island Occupational Exposure Limits	indium	Indium and compounds, as In	0.1 mg/m3	Not Available	Not Available	TLV® Basis: Pulm edema; pneumonitis; dental erosion; malaise
Canada - British Columbia Occupational Exposure Limits	indium	Indium and compounds, as In	0.1 mg/m3	Not Available	Not Available	Indium phosphide is an IARC group 2A carcinogen
Canada - Ontario Occupational Exposure Limits	indium	Particles (Insoluble or Poorly Soluble) Not Otherwise Specified (PNOS) (Respirable fraction)	3 mg/m3	Not Available	Not Available	(R) Respirable fraction: means that size fraction of the airborne particulate deposited in the gas-exchange region of the respiratory tract and collected during air sampling with a particle size-selective device that, (a) meets the ACGIH particle size-selective sampling criteria for airborne particulate matter; and (b) has the cut point of 4 μm at 50 per cent collection efficiency.
Canada - Ontario Occupational Exposure Limits	indium	Particles (Insoluble or Poorly Soluble) Not Otherwise Specified (PNOS) (Inhalable fraction)	10 mg/m3	Not Available	Not Available	(I) Inhalable fraction: means that size fraction of the airborne particulate deposited anywhere in the respiratory tract and collected during air sampling with a particle size-selective device that, (a) meets the ACGIH particle size-selective sampling criteria for airborne particulate matter; and (b) has the cut point of 100 $\mu m$ at 50 per cent collection efficiency.
Canada - Nova Scotia Occupational Exposure Limits	indium	Particles (Insoluble or Poorly Soluble) [NOS] Respirable particles	3 mg/m3	Not Available	Not Available	See Appendix B current TLV/BEI Book
Canada - Nova Scotia Occupational Exposure Limits	indium	Particles (Insoluble or Poorly Soluble) [NOS] Inhalable particles	10 mg/m3	Not Available	Not Available	See Appendix B current TLV/BEI Book
Canada - Nova Scotia Occupational Exposure Limits	indium	Indium and compounds (as In)	0.1 mg/m3	Not Available	Not Available	TLV Basis: pulmonary edema; pneumonitis; dental erosion; malase
Canada - Alberta Occupational Exposure Limits	indium	Particulate Not Otherwise Regulated: Total	10 mg/m3	Not Available	Not Available	3 - Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Canada - Alberta Occupational Exposure Limits	indium	Particulate Not Otherwise Regulated: Respirable	3 mg/m3	Not Available	Not Available	3 - Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Canada - Alberta Occupational Exposure Limits	indium	Indium & compounds, as In	0.1 mg/m3	Not Available	Not Available	Not Available
Canada - Northwest Territories Occupational Exposure Limits	indium	Particles (Insoluble or Poorly Soluble) Not Otherwise Specified: Inhalable fraction	10 mg/m3	20 mg/m3	Not Available	Not Available
Canada - Northwest Territories Occupational Exposure Limits	indium	Indium and Compounds, (as In)	0.1 mg/m3	0.3 mg/m3	Not Available	Schedule R (Indium pho- sphide)

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Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Canada - Northwest Territories Occupational Exposure Limits	indium	Particles (Insoluble or Poorly Soluble) Not Otherwise Specified: Respirable fraction	3 mg/m3	6 mg/m3	Not Available	Not Available
Canada - Quebec Permissible Exposure Values for Airborne Contaminants	indium	Particulates Not Otherwise Classified (PNOC) - Total dust	10 mg/m3	Not Available	Not Available	Note 1: The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1%.
Canada - Quebec Permissible Exposure Values for Airborne Contaminants	indium	Indium and compounds (as In)	0.1 mg/m3	Not Available	Not Available	Not Available
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits	zinc	Particles (Insoluble or Poorly Soluble) Not Otherwise Specified: Respirable fraction++	3 mg/m3	6 mg/m3	Not Available	Not Available
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits	zinc	Particles (Insoluble or Poorly Soluble) Not Otherwise Specified: Inhalable fraction++	10 mg/m3	20 mg/m3	Not Available	Not Available
Canada - Ontario Occupational Exposure Limits	zinc	Particles (Insoluble or Poorly Soluble) Not Otherwise Specified (PNOS) (Respirable fraction)	3 mg/m3	Not Available	Not Available	(R) Respirable fraction: means that size fraction of the airborne particulate deposited in the gas-exchange region of the respiratory tract and collected during air sampling with a particle size-selective device that, (a) meets the ACGIH particle size-selective sampling criteria for airborne particulate matter; and (b) has the cut point of 4 µm at 50 per cent collection efficiency.
Canada - Ontario Occupational Exposure Limits	zinc	Particles (Insoluble or Poorly Soluble) Not Otherwise Specified (PNOS) (Inhalable fraction)	10 mg/m3	Not Available	Not Available	(I) Inhalable fraction: means that size fraction of the airborne particulate deposited anywhere in the respiratory tract and collected during air sampling with a particle size-selective device that, (a) meets the ACGIH particle size-selective sampling criteria for airborne particulate matter; and (b) has the cut point of 100 µm at 50 per cent collection efficiency.
Canada - Nova Scotia Occupational Exposure Limits	zinc	Particles (Insoluble or Poorly Soluble) [NOS] Inhalable particles	10 mg/m3	Not Available	Not Available	See Appendix B current TLV/BEI Book
Canada - Nova Scotia Occupational Exposure Limits	zinc	Particles (Insoluble or Poorly Soluble) [NOS] Respirable particles	3 mg/m3	Not Available	Not Available	See Appendix B current TLV/BEI Book
Canada - Alberta Occupational Exposure Limits	zinc	Particulate Not Otherwise Regulated: Respirable	3 mg/m3	Not Available	Not Available	3 - Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Canada - Alberta Occupational Exposure Limits	zinc	Particulate Not Otherwise Regulated: Total	10 mg/m3	Not Available	Not Available	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Canada - Northwest Territories Occupational Exposure Limits	zinc	Particles (Insoluble or Poorly Soluble) Not Otherwise Specified: Inhalable fraction	10 mg/m3	20 mg/m3	Not Available	Not Available
Canada - Northwest Territories Occupational Exposure Limits	zinc	Particles (Insoluble or Poorly Soluble) Not Otherwise Specified: Respirable fraction	3 mg/m3	6 mg/m3	Not Available	Not Available
Canada - Quebec Permissible Exposure Values for Airborne Contaminants	zinc	Particulates Not Otherwise Classified (PNOC) - Total dust	10 mg/m3	Not Available	Not Available	Note 1: The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1%.

### **Emergency Limits**

Ingredient	TEEL-1	TEEL-2	TEEL-3
silver	0.3 mg/m3	170 mg/m3	990 mg/m3
tin	6 mg/m3	67 mg/m3	400 mg/m3
copper	3 mg/m3	33 mg/m3	200 mg/m3
indium	0.3 mg/m3	3.3 mg/m3	20 mg/m3
zinc	6 mg/m3	21 mg/m3	120 mg/m3

Ingredient	Original IDLH	Revised IDLH
silver	10 mg/m3	Not Available
tin	Not Available	Not Available
copper	100 mg/m3	Not Available
indium	Not Available	Not Available
zinc	Not Available	Not Available

### MATERIAL DATA

### **Exposure controls**

Appropriate engineering Articles or manufactured items, in their original condition, generally don't require engineering controls during handling or in normal use.

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## Permite; Lojic +; GS-80; GS-80 Spherical; F400; New Ultrafine; SDI Admix; SDI Spherical; SDI Alloy, and Ultratabs- Alloy powder and Tablets

### controls

Exceptions may arise following extensive use and subsequent wear, during recycling or disposal operations where substances, found in the article, may be released to the environment.

# Individual protection measures, such as personal protective equipment









- ► Safety glasses with side shields
- ► Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]

### Eye and face protection

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

Skin protection	See Hand protection below
Hands/feet protection	Wear impervious gloves.
Body protection	See Other protection below

No special equipment needed when handling small quantities. **OTHERWISE:** 

### Other protection

Overalls.

- Barrier cream.
- ► Eyewash unit.

### **SECTION 9 Physical and chemical properties**

### Information on basic physical and chemical properties

Appearance	Bluish-grey silver alloy powder and silver-grey compressed silver alloy powder (tablets) with no odour, insoluble in water.			
Physical state	Manufactured	Relative density (Water = 1)	Not Available	
Odour	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable	
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Applicable	
Melting point / freezing point (°C)	Undetermined (>500)	Viscosity (cSt)	Not Applicable	
Initial boiling point and boiling range (°C)	Undetermined (>900)	Molecular weight (g/mol)	Not Applicable	
Flash point (°C)	Not Applicable	Taste	Not Available	
Evaporation rate	Not Applicable	Explosive properties	Not Available	
Flammability	Not Applicable	Oxidising properties	Not Available	
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable	
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Applicable	
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available	
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable	
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available	

### **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

### **SECTION 11 Toxicological information**

### Information on toxicological effects

Inhaled	The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual.

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	Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) $^{[1]}$				
zinc	Dermal (rabbit) LD50: 1130 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>				
	TOXICITY	IRRITATION				
		Skin: no adverse effect observed (not irritating) $^{[1]}$				
indium	Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>				
	TOXICITY	IRRITATION				
	Oral (Mouse) LD50; 0.7 mg/kg <sup>[2]</sup>					
оорры	Inhalation(Rat) LC50: 0.733 mg/l4h <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>				
copper	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>				
	TOXICITY	IRRITATION				
	Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup>					
	Inhalation(Rat) LC50: >4.75 mg/l4h <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>				
tin	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>				
	TOXICITY	IRRITATION				
	Oral (Rat) LD50: >2000 mg/kg <sup>[2]</sup>					
	Inhalation(Rat) LC50: >5.16 mg/l4h <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>				
silver	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating)[1]				
	TOXICITY	IRRITATION				
Tablets						
Spherical; SDI Alloy, and Ultratabs- Alloy powder and	Not Available	Not Available				
Spherical; F400; New Ultrafine; SDI Admix; SDI	TOXICITY	IRRITATION				
Permite; Lojic +; GS-80; GS-80						
Chronic	models); nevertheless exposure by all routes should be n	uce chronic effects adverse to health (as classified by EC Directives using animal ninimised as a matter of course.				
Еуе	characterised by tearing or conjunctival redness (as with	·				
	Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.					
Skin Contact	models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.  Irritation and skin reactions are possible with sensitive skin  Open cuts, abraded or irritated skin should not be exposed to this material  Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects.					
	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good bygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational					

WARNING: Inhalation of high concentrations of copper fume may cause "metal fume fever", an acute industrial disease of short duration. Symptoms are tiredness, influenza like respiratory tract irritation with fever.

The following information refers to contact allergens as a group and may not be specific to this product.

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested. for copper and its compounds (typically copper chloride):

### COPPER

Acute toxicity: There are no reliable acute oral toxicity results available. In an acute dermal toxicity study (OECD TG 402), one group of 5 male rats and 5 groups of 5 female rats received doses of 1000, 1500 and 2000 mg/kg bw via dermal application for 24 hours. The LD50 values of copper monochloride were 2,000 mg/kg bw or greater for male (no deaths observed) and 1,224 mg/kg bw for female. Four females died at both 1500 and 2000 mg/kg bw, and one at 1,000 mg/kg bw. Symptom of the hardness of skin, an exudation of hardness site, the formation of scar and reddish changes were observed on application sites in all treated animals. Skin inflammation and injury were also noted. In addition, a reddish or black urine was observed in females at 2,000, 1,500 and 1,000 mg/kg bw. Female rats appeared to be more sensitive than male based on mortality and clinical signs.

No reliable skin/eye irritation studies were available. The acute dermal study with copper monochloride suggests that it has a potential to cause skin irritation.

Repeat dose toxicity: In repeated dose toxicity study performed according to OECD TG 422, copper monochloride was given orally (gavage) to Sprague-Dawley rats for 30 days to males and for 39 - 51 days to females at concentrations of 0, 1.3, 5.0, 20, and 80 mg/kg bw/day. The NOAEL value was 5 and 1.3 mg/kg bw/day for male and female rats, respectively. No deaths were observed in male rats. One treatment-related death was observed in female rats in the high dose group. Erythropoietic toxicity (anaemia) was seen in both sexes at the 80 mg/kg bw/day. The frequency of squamous cell hyperplasia of the forestomach was increased in a dose-dependent manner in male and female rats at all treatment groups, and was statistically significant in males at doses of =20 mg/kg bw/day and in females at doses of =5 mg/kg bw/day doses. The observed effects are considered to be local, non-systemic effect on the forestomach which result from oral (gavage) administration of copper monochloride. Genotoxicity: An in vitro genotoxicity study with copper monochloride showed negative results in a bacterial reverse mutation test with Salmonella typhimurium strains (TA 98, TA 100, TA 1535, and TA 1537) with and without S9 mix at concentrations of up to 1,000 ug/plate. An in vitro test for chromosome aberration in Chinese hamster lung (CHL) cells showed that copper monochloride induced structural and numerical

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aberrations at the concentration of 50, 70 and 100 ug/mL without S9 mix. In the presence of the metabolic activation system, significant increases of structural aberrations were observed at 50 and 70 ug/mL and significant increases of numerical aberrations were observed at 70 ug/mL. In an in vivo mammalian erythrocyte micronucleus assay, all animals dosed (15 - 60 mg/kg bw) with copper monochloride exhibited similar PCE/(PCE+NCE) ratios and MNPCE frequencies compared to those of the negative control animals. Therefore copper monochloride is not an in vivo mutagen.

Carcinogenicity: there was insufficient information to evaluate the carcinogenic activity of copper monochloride.

Reproductive and developmental toxicity. In the combined repeated dose toxicity study with the reproduction/developmental toxicity screening test (OECD TG 422), copper monochloride was given orally (gavage) to Sprague-Dawley rats for 30 days to males and for 39-51 days to females at concentrations of 0, 1.3, 5.0, 20, and 80 mg/kg bw/day. The NOAEL of copper monochloride for fertility toxicity was 80 mg/kg bw/day for the parental animals. No treatment-related effects were observed on the reproductive organs and the fertility parameters assessed. For developmental toxicity the NOAEL was 20 mg/kg bw/day. Three of 120 pups appeared to have icterus at birth; 4 of 120 pups appeared runted at the highest dose tested (80 mg/kg bw/day).

ZINC

The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.

TIN & INDIUM & ZINC

No significant acute toxicological data identified in literature search

Acute Toxicity	<b>~</b>	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	×
Respiratory or Skin sensitisation	<b>✓</b>	STOT - Repeated Exposure	•
Mutagenicity	<b>✓</b>	Aspiration Hazard	×

Legend:

💢 – Data either not available or does not fill the criteria for classification

- Data available to make classification

### **SECTION 12 Ecological information**

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Permite; Lojic +; GS-80; GS-80 Spherical; F400; New	En la dat	To at Bound's at (La)		0		Water	0
Ultratabs- Alloy powder and Ultratabs- Alloy powder and Tablets	Not Available	Test Duration (hr)  Not Available		Not Available  Not Available  Not Available			Not Available
	Endpoint	Test Duration (hr)	Sp	Species Value			Source
	EC50	72h	Alg	gae or other aquatic plants	<0.001mg/L		2
	EC50	48h	Cru	ustacea	0.0001-0.0013mg/l		4
silver	EC50	96h	Alg	gae or other aquatic plants	0.002mg/L		4
	LC50	96h	Fis	sh	0.001mg/L		2
	NOEC(ECx)	24h	Cru	ustacea	0.0000	06-0.0136mg/l	4
	Endpoint	Test Duration (hr)		Species		Value	Source
	EC50	72h		Algae or other aquatic plants		>0.019mg/L	2
tin	LC50	96h		Fish		>0.012mg/L	2
	NOEC(ECx)	168h		Crustacea		<0.005mg/L	2
	Endpoint	Test Duration (hr)	s	pecies	Valu	e	Source
	EC50	72h	А	lgae or other aquatic plants	0.01	1-0.017mg/L	4
	EC50	48h	С	rustacea	0.00	06-0.0017mg/l	4
copper	EC50	96h	А	lgae or other aquatic plants	0.03	-0.058mg/l	4
	LC50	96h	Fi	ïsh	0.00	3mg/L	2
	NOEC(ECx)	48h	F	ish	0.00	009mg/l	4
	Endpoint	Test Duration (hr)		Species Value		Source	
	EC50	72h		Algae or other aquatic plants		<0.001mg/L	2
indium	EC50	48h		Crustacea		1.31mg/l	2
	LC50	96h		Fish		19.519mg/l	2
	NOEC(ECx)	72h		Algae or other aquatic plants		<0.001mg/L	2
zinc	Endpoint	Test Duration (hr)	Sp	pecies	Value		Source
	EC50	72h	Alg	gae or other aquatic plants	0.005m	ng/l	4
	EC50	48h	Cru	ustacea	0.06-0.	08mg/l	4
	EC50	96h	Alg	gae or other aquatic plants	0.042m	ıg/L	2
	LC50	96h	Fis	sh	0.0106	8-0.01413mg/l	4
	NOEC(ECx)	672h	Fis		0.0026		4

Leaend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) Version No: 9.1

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and Ultratabs- Alloy powder and Tablets

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- Bioconcentration Data 8. Vendor Data

DO NOT discharge into sewer or waterways.

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air	
	No Data available for all ingredients	No Data available for all ingredients	

### Bioaccumulative potential

Ingredient	Bioaccumulation		
	No Data available for all ingredients		

### Mobility in soil

Ingredient	Mobility		
	No Data available for all ingredients		

### **SECTION 13 Disposal considerations**

### Waste treatment methods

Consult State Land Waste Management Authority for disposal.

Product / Packaging disposal

- DO NOT allow wash water from cleaning or process equipment to enter drains
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- ▶ Where in doubt contact the responsible authority.

### **SECTION 14 Transport information**

### **Labels Required**

**Marine Pollutant** 



Land transport (TDG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

### 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
silver	Not Available
tin	Not Available
copper	Not Available
indium	Not Available
zinc	Not Available

### 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
silver	Not Available
tin	Not Available
copper	Not Available
indium	Not Available
zinc	Not Available

### **SECTION 15 Regulatory information**

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

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.

### silver is found on the following regulatory lists

Canada Categorization decisions for all DSL substances

Canada Domestic Substances List (DSL)

Canada Toxicological Index Service - Workplace Hazardous Materials Information System - WHMIS GHS

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International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

### tin is found on the following regulatory lists

Canada Categorization decisions for all DSL substances

Canada Domestic Substances List (DSL)

Canada Toxicological Index Service - Workplace Hazardous Materials Information System - WHMIS GHS

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

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International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

### zinc is found on the following regulatory lists

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Canada Toxicological Index Service - Workplace Hazardous Materials Information System - WHMIS GHS

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

### **Additional Regulatory Information**

Not Applicable

### **National Inventory Status**

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (silver; tin; copper; indium; zinc)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	No (silver; tin; copper; indium; zinc)	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	Yes	
Vietnam - NCI	Yes	
Russia - FBEPH	Yes	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

### **SECTION 16 Other information**

Revision Date	10/03/2023
Initial Date	02/11/2015

### **SDS Version Summary**

Version	Date of Update	Sections Updated
8.1	23/12/2022	Classification review due to GHS Revision change.
9.1	10/03/2023	Classification change due to full database hazard calculation/update.

### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by SDI Limited using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

### **Definitions and abbreviations**

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- ▶ IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- ▶ STEL: Short Term Exposure Limit

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- ► TEEL: Temporary Emergency Exposure Limit。
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- ► NOAEL: No Observed Adverse Effect Level
- ▶ LOAEL: Lowest Observed Adverse Effect Level
- ► TLV: Threshold Limit Value
- LOD: Limit Of Detection
- ▶ OTV: Odour Threshold Value
- ► BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- ► DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

The information contained in the Safety Data Sheet is based on data considered to be accurate, however, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof.

### Other information:

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