

MATERIAL SAFETY DATA SHEET

SP10 Series: POLYESTER (TGIC)

PRODUCT INFORMATION			
SUPPLIER	INSOLTECH (NZ) LIMITED	EMERGENCY CONTACT	0800-764-766 24HRS
ADDRESS	531, Sth, TITIRANGI Rd, TITIRANGI. AUCKLAND. NZ.	OFFICE CONTACT	64-9-817-3779
INDUSTY NAME	POWDER COATINGS	SP10 POLYESTER	TGIC
CHEMICAL FAMILY	POLYESTER	FORMULATION	DATE: JANUARY 2022

HAZADOUS INGREDIENTS			
MATERIALS	CAS NO	WEIGHT %	REMARKS / RISK
POLYESTER RESIN	25135-73-3	55-65	
HARDNER –TGIC (Triglycidyl isocyanurate)	2451-62-9	3-5	R23/25,R41,R42/43,R48/22,R46 Ingredients determined not to be 100% be hazardous.
PIGMENT	1333-86-4	1-5	
BARIUM SULPHATE	7727-43-7	25-35	
OTHERS		1-2	

PHYSICAL DATA			
PHYSICAL STATE	COLOURED POWDER	SPECIFIC GRAVITY	1.5 - 1.7
SOFTENING POINT	45 DEGREES C	VOLATILE % BY VOLUME	-
IGNITION TEMPERATURE	400 DEGREES C		
SOLUBILITY IN WATER	INSOLUBLE		
BULK DENSITY	400-1000KG /M3		

FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT ©	N/APPLICABLE	FLAMABLE LIMITS	N/APPLICABLE
RECOMMENDED EXTINGUISHING MEDIA	ALCOHOL RESISTANT CO2 BLANKET	WATER SPRAY / MIST	

Do not use high pressure inert gas (e.g. CO₂), water jets
Recommendations:

Fire will produce dense black smoke containing hazardous products of combustion, exposure to decomposition products may be a hazard to health.

Appropriate self-contained breathing apparatus may be required.

Cool closed containers exposed to fire with water spray / mist.

Avoid run off into exposed drains or water courses.

Explosion Limit of a Dust / Air Mixture 30-90 g/m³
(Recommended limit value 10g/m³).

HAZARD IDENTIFICATION

Not Classified as a Dangerous Good under NZS 5433:1999 Transport of Dangerous Goods on Land

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

Subclasses:

Subclass 6.1 Category D- Substances which are acutely toxic.

Subclass 6.4 Category A- Substances that are irritating to the eyes.

Subclass 6.5 Category A- Substances that are respiratory sensitizers.

Subclass 6.5 Category B- Substances that are contact sensitizers.

Subclass 6.6A Category II- Substances which should be regarded as if they are mutagenic to humans.

HEALTH HAZARD DATA

Threshold limit value total inhalable dusts 10mg/m³ over 8 hours. Respirable dusts 5mg/m³.

Triglycidylisocyanurate (TGIC). WES-TWA =0.08 mg/m³. As published by the New Zealand Occupational Safety and Health Service (OSH).

WES-TWA (Workplace Exposure Standard – Time Weighted average). The Eight Hour, time weighted average exposure standard is designed to protect the worker from the effects of long term exposure. Overexposure effects:

Eye Contact : May cause eye irritation

Skin Contact: May cause localized skin irritation

Inhalation: Dust may be harmful, if inhaled.

Exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous dust concentrations. They are not a measure of relative toxicity.

EMERGENCY AND FIRST AID PRODEDURES

EYE CONTACT	Flush eyes immediately with plenty of fresh watr for at least 10 minutes. Seek medical advice.
SKIN CONTACT	Remove contaminated clothing. Wash Skin thoroughly with soap and water. Do Not use solvents or thinners.
INHALATION	Move into fresh air, apply artificial respiration and other supportive measures as required. If needed seek medical advice.
INGESTION	Do Not induce vomiting, seek medical advice as soon as possible.

STABILITY AND REACTIVITY

<p>Stable under the recommended storage and handling conditions.</p> <p>In a fire situation, hazardous decomposition products such as smoke, carbon and monodioxide, carbon dioxide and oxides of nitrogen may be produced.</p> <p>Incompatible with oxidizing agents.</p>
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SPILL OR LEAK PROCEDURES

<p>Exclude sources of ignition and ventilate the area.</p> <p>Exclude non-essential personnel. Avoid breathing dust.</p> <p>Contain and collect spillage's with an electrically protected vacuum cleaner or by wet brushing. Place in a closed container for disposal in accordance with waste regulations.</p> <p>Do not dry brush as dust clouds or static may be created. Do not allow spills to enter drains or watercourse's. Should the product enter drains / or static may be created. Do not allow spills to enter drains or watercourse's. Should the product enter drains / sewer contact local authorities immediately. In case of spills entering streams, rivers or lakes contact the local Environment Agency.</p>

PERSONAL PROTECTION	
Persons with a history of respiratory or allergic responses should only be exposed to , or handle, this product under appropriate medical supervision.	
PERSONAL PROTECTION	Wear protective dust proof overalls, including respiratory protective equipment, dust mask or powdered air purifying face mask, avoid skin contact. Synthetic Gloves should be worn when handling dry powders.
RESPIRATORY PROTECTION	Air-fed respiratory equipment should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the occupational exposure limit and engineering controls and methods cannot be reasonably improved to comply with the limits.
HAND PROTECTION	Where skin exposure may occur, advise should be sought from glove suppliers on appropriate types. Barrier creams may help to protect exposed skin areas but are not substitutes for full protection. These should not be applied once exposure has occurred.
EYE PROTECTION	Eye protection designed to protect against exposure to dusts should be worn anywhere where there is a likelihood of exposure
SKIN PROTECTION	Cotton or cotton/ synthetic coveralls or overalls are normally suitable. Care should be taken in the selection of protective clothing to ensure that inflation and or irritation of the skin at the neck and wrists through contact with the powder is avoided.

HANDLING AND STORAGE	
HANDLING	<p>Precautions should be taken to avoid formation of dusts in concentrations above flammable, explosive or occupational exposure limits. Electrical equipment and lighting should be protected to appropriate standards and to prevent dusts coming into contact with hot surfaces, sparks and any other ignition sources.</p> <p>Keep containers closed, exclude sources of heat and open flame. Avoid inhalation of dusts.</p> <p>Smoking, eating and drinking should be prohibited in areas where powders are stored and or used.</p> <p>Powders should be stored in the same containers as supplied by the original supplier.</p> <p>The product may charge electrically, use earthing leads when transferring powder from one container to another.</p> <p>Operators should wear anti-static footwear and clothing and floors should be electrically conductive.</p>

	A Manual Handling operation regulation may apply to the handling of containers. Refer to the weight guide indicated on the container when carrying out the assessment.
STORAGE	Store containers between 5 - 25C in a dry, well ventilated place away from any heat source, ignition and direct sunlight. Smoking should be prohibited, prevent unauthorized access. Previously opened containers should be resealed and kept upright to prevent leakage.

TOXICOLOGICAL INFORMATION

No adverse Health Effects are expected providing the product is used according to the Safety Data Sheet and product labeling information.

Coating powders can cause localized skin irritation in folds of the skin or in contact with tight clothing. Breathing dusts may result in respiratory irritation and can cause possible allergic reactions similar to asthma symptoms.

Long term effects: No information is available for the product.

For TGIC evidence from animal tests indicate repeated or prolonged exposure to raw TGIC and powders containing TGIC hardner may cause genetic and reproductive effects. This emphasizes the requirement to handle the product in strict compliance with the suppliers recommendations.

Oral LD50: 390 mg/kg approx. (rat)

Skin: Non- irritant (rabbit)

Eyes: irritant (rabbit)

ECOLOGICAL INFORMATION

There is no current data on finished powders

The product should not be allowed to enter drains or water courses or where it could affect ground or surface waters.

TRANSPORT INFORMATION

Road and Rail Transport

Not Classified as Dangerous Goods under NZS5433:1999 Transport of Dangerous Goods on Land.

Marine Transport

Not Classified as Dangerous Goods by the Criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transportation by sea. Non Dangerous Goods.

Air Transport

Not Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods regulations for Transportation by Air, Non Dangerous Goods.

