



Pure Polyester Curing Agent TGIC MSDS

1. Chemical name and manufacturer information

English name	Pure Polyester Curing Agent TGIC	CAS #	2451-62-9
Chinese name	纯聚酯固化剂 TGIC	Model	/
Product use	Pure polyester curing agent TGIC chemical composition is an isocyanuric acid triglyceride, is a heterocyclic poly epoxy compound with good heat resistance, weather resistance, adhesion and excellent high-temperature resistance. Mainly used as a curing agent containing carboxyl polyester, carboxy acrylic resin powder coating, high purity TGIC can be used to manufacture electrical insulation laminates, adhesives, plastic stabilizers and so on.		
Name of Supplier	Anhui Kingcham New Material Co., Ltd	Telephone	0551-62759996
Supplier address	Room 1305 Jinqian Square , No. 4680 Jinzhai Road , Shushan District, Hefei, 230026 ,Anhui, China.	Fax	0551-68174569

2. Chemical composition/composition information

Chemical composition	Content (%)	CAS #
Triglycidyl isocyanurate	>99%	2451-62-9

3. Hazard overview

Skin irritation (Category 2)

Eye irritation (Category 2A)

Specific target organ system virus (one-time exposure) (Category 3)

4. First aid measures

Skin contact	Take off contaminated clothes and wash them with plenty of running water.
Eye contact	Lift eyelids and rinse them with flowing water or normal saline. Seek medical attention immediately.
Intake	Drink plenty of warm water, induce vomiting and seek medical treatment.

5. Fire control measures

Hazard characteristics	Combustible in case of open flame
Harmful combustion products	Carbon oxides, nitrogen oxides, hydrogen bromide
Fire extinguishing methods and extinguishing agents	<p>Fire extinguishing method: Evacuate people away from the fire site. Isolate the fire site and prohibit unnecessary people from entering. Soak the burning materials thoroughly with water to cool and prevent re-burning. Spray water to cool containers exposed to fire and areas affected by fire until the flame is extinguished and the danger of re-burning is relieved. If the product is contaminated, please observe the heat generation and/or decomposition of the product. When extinguishing fire, stand in the protected area or keep a safe distance. Consider using unmanned hose brackets or adjusting nozzles to extinguish fires. For small fires, you can hold dry powder fire extinguishers or carbon dioxide fire extinguishers to extinguish fires. Forced use of fire extinguishing reagents may lead to dust explosion hazard. Remove as far as possible without danger. Fire extinguishing agent: atomized water, dry powder fire extinguisher, carbon dioxide fire extinguisher and anti-dissolving foam fire extinguisher.</p>
Precautions for fire extinguishing	Firefighters should wear gas masks, and self-contained positive pressure respirators and full-body fire-fighting clothes should be worn for handling large amounts of leaks.

6. Emergency treatment of leakage

Emergency treatment	<p>Use personal protective equipment, avoid dust production, avoid inhaling steam, smoke or gas, ensure adequate ventilation, and evacuate personnel to a safe area. Don't let the product enter the sewer. Do not generate dust during collection and disposal, sweep and shovel it off and put it into a suitable closed container for treatment.</p>
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7. Operation and storage

Operational Precautions	Avoid contact with skin and eyes. Avoid dust and aerosol formation. Provide suitable exhaust equipment in places with dust. General fire prevention measures.
Storage considerations	Store in a cool place, keep it airtight in a container, and store it in a dry and ventilated place.

8. Contact control and personal protective measures

Occupational exposure limit	10mg/m ²
Engineering control	Closed operation, local exhaust
Eye protection	Wear chemical safety goggles when necessary
Body protection	Wear general working protective clothing
Respiratory system protection	When the dust concentration in the air is high, it is recommended to wear a self-priming filter dust mask.
Hand protection	Wear general work protective gloves
Other protection	After work, bathe and change clothes. Pay attention to personal hygiene.

9. Physical and chemical characteristics

Main components	Triglycidyl isocyanurate
Appearance and character	White granules
Melting point/°C	95-125
Epoxy equivalent g/mol	90-110
Volatile component	<0.5
Epichlorohydrin residue	<300ppm
Boiling water resistance /h	> 1
Main uses	This product is used as a special additive for powder coatings.

10. Stability and reactivity

Avoid exposure to humidity and prohibit strong oxidants.

11. Toxicological information

LD50: 33750 mg (rat, orally) LC50: No data available .

Avoid contact with skin and eyes.

12. Ecological information

Ecotoxicity	No data
Biodegradation	No relevant information was found.
Biodegradable	No relevant information was found.
Other harmful effects	In non-professional operation and treatment, the harm to the environment is not excluded.

13. Waste disposal

Property of waste	General industrial solid waste
Waste disposal method	It is treated by a professional waste treatment company. Do not pour into any sewer, ground, or any water body. Do not burn in mixed flammable solvents.
Precautions for Abandonment	All disposal operations must comply with local regulations. Regulations may vary from region to region. Waste identification and compliance with relevant laws and regulations are the sole responsibility of waste producers. As a supplier, we cannot control the management measures or manufacturing processes in the use and treatment of this material by the user unit.

14. Transport information

Dangerous goods number	No data
Packaging category	No data
Packaging method	Built-in plastic bag packaging, external waterproof kraft paper bag.
Transportation precautions	Packing should be complete at departure and loading should be safe. Make sure there is no leakage during transportation. It is strictly forbidden to mix with oxidants, acids, etc. During transportation, it is necessary to prevent high temperature exposure and rain.

15. Regulatory information

Regulatory information	<< Regulations on Safe Use of Chemicals in the Workplace >>
	<< Occupational Exposure Limits for Hazardous Factors in the Workplace-Chemical Factors >> (GB 2.1)
	<< Environmental Management Measures for New Chemicals >>
	Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Waste
	Classification and marking of commonly used hazardous chemicals (GB 13690)
	Regulations on Safety Management of Hazardous Chemicals << Dangerous Goods List >> (GB 12268)

16. Other information

MSDS Description	This information is based on our knowledge. However, this does not constitute a guarantee for any specific product characteristics, nor should it establish a legally effective contractual relationship.
Release department	Anhui Kingcham Technology Department
Release time	2021.6