

Safety Data Sheet

1. Identification

Product identifier	TCA 2.9
Recommended use	Thermal gel with adhesive
Recommended restrictions	No restrictions on use known
Chemical family	Mixture (Part A and Part B)
Company name	TCLAD
Address	1600 Orrin Road, Prescott, WI 54021
Telephone	+1 715 262 8206

2. Hazard(s) identification



Chemical Hazard Classification: Serious eye damage/eye irritation category 2B, Skin sensitization category 1.

Hazard Statement: Causes eye irritation, May cause allergic skin reaction.

Precautionary Statement: Store in well-ventilated place. Keep away from ignition sources—No smoking. Do not wear contact lenses. Chemical safety goggles are recommended. Avoid eyes and skin contact. Wear suitable protective equipment. Call a doctor or physician if you feel unwell.

Supplemental information Not applicable

3. Composition/information on ingredients

Product name	Common name and synonyms	CAS number	Concentration(%)
Part A	Aluminum oxide	1344-28-1	86%
	Polyester/Polyether Polyol polymer	Confidential	14%
Part B	Poly(hexamethylene diisocyanate)	28182-81-2	15%
	Aluminum oxide	1344-28-1	86%

4. First-aid measures

Inhalation	Remove to fresh air. If symptoms persists, obtain medical attention immediately.
Skin contact	Immediately wash with soap and water. Wash contaminated clothing before reuse. Get medical attention if symptoms occur.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Obtain medical attention if symptoms develop and persist.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance

5. Fire-fighting measures

Suitable extinguishing media Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media None known

Specific hazards arising from the chemical Toxic fumes may be released during a fire. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Special protective equipment and Precautions for fire-fighters Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Fire-fighting Equipment/instructions Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards Not classified as flammable. However, may burn if exposed to extreme heat and flame.

6. Accidental release measures

Methods for cleaning up Vacuum or sweep up material and dispose of material in accordance with federal, state, and local regulations.

Environmental precautions Prevent product from entering drains, sewers, waterways and soil.

7. Handling and storage

Special precautions need to be taken when handling this material.

Handling:	Wear suitable protective equipment. Avoid leak. Keep away from light and heat. Avoid eye and skin contact. Keep the place ventilated.
Storage:	Keep away from flame and sunlight. Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly sealed.

8. Exposure controls/personal protection

Engineering Controls No special ventilation requirements if good ventilation is maintained.

Personal Protection:
Respiratory: Respiratory equipment and gas mask.
Hand protection: Use protective gloves.
Eyes: Do not wear contact lenses. Chemical safety goggles are recommended.
Skin: Avoid skin contact. Use impermeable gloves and protective clothing as necessary to prevent skin contact. Wash contaminated clothing before reuse

9. Physical and chemical properties

Physical State(Appearance, Color): White liquid	Odor: Mild
Odor Threshold: -----	Melting Point: ----- °C
pH Value: -----	Boiling Point: ----- °C
Flammable (Solid, Gas): -----	Flash Point: >275 °C
Decomposition Temp.: ----- °C	Test Method: Closed-cup
Autoignition Temperature: ----- °C	Explosion Limits:
Upper(UEL): -----; Lower(LEL): -----	
Vapor Pressure: <----- mmHg (@20 °C)	Vapor Density: ----- (Air=1)
Density: 2.8 g/cm ³ (Water=1)	Solubility in Water: -----
Octanol-water Partition Coefficient, Kow: -----	Evaporation Rate: -----

10. Stability and reactivity

Reactivity	Not normally reactive.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur. No dangerous reaction known under conditions of normal use.
Conditions to avoid	Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.
Incompatible materials	Strong oxidizing agents; Strong acids.
Hazardous decomposition products	None known, refer to hazardous combustion products in Section 5. Might contain carbon monoxide, acetone, aldehyde, ammonia.

11. Toxicological information

Acute Toxicity: Inhalation: May irritate to nose and throat. Skin: Irritating to skin if contact. Eye: The vapor may Irritate to eye. Ingestion: May cause headache, nausea, dizziness and tiredness.			
Ingredients	Concentration %	LD50 (Lethal Dose 50)	LC50 (Lethal Concentration 50)
Poly(hexamethylene diisocyanate)	15	> 5000 mg/kg (Rat, Oral)	18500 mg/m ³ /1 hour(s) (Rat, Inhalation)
Aluminium oxide	85	-----	-----
Local Effects: -----			
Sensitization: -----			
Chronic Toxicity or Long Term Toxicity: -----			
Specific Effects: -----			

12. Ecological information

No specific ecological data for this material is available. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

13. Disposal consideration

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable federal, state, territory and local regulations.
Hazardous waste code	If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

14. Transport information

49CFR/DOT

Not regulated as dangerous goods

ICAO/IATA

Not regulated as dangerous goods

IMDG

Not regulated as dangerous goods

General information

Appropriate advice on safety must accompany the package.

This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

SARA Section 302: Not listed

SARA Section 311, 312: Not listed

SARA Section 313: Not listed

16. Other information, including date of preparation or last revision

Issue date 06/30/2026

Version# 1

Disclaimer: The information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this data sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user.