Section 1. Identification

Product identifier

Product Identity Other means of identification TPGDA Tripropyleneglycol diacrylate

Relevant identified uses of the substance or mixture and uses advised against:

Intended/Recommended use

Radiation curable coating ingredient, Coatings & Inks

Uses advised against

This product should not be used in any consumer applications. This product should not be used in professional applications such as perfumes, fragrances, dental applications, washing and cleaning products, cosmetic applications (personal care products or fingernail applications). Reason: sensitizing properties.

Details of the supplier of the safety data sheet

Company Name	Silver Fern Chemical, Inc. 2226 Queen Anne Avenue North Seattle, WA 98109 USA Customer Service: 1-866-282-3384 info@silverfernchemical.com Website - www.silverfernchemical.com
Emergency	
24 hour Emergency Telephone No.	Emergency telephone number Infotrac: 1-800-535-5053; Outside USA & Canada +1-352-323-3500
Customer Service:	

Section 2. Hazard(s) identification

Revision Date: 08/16/2024



Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7)

Serious eye damage / eye irritation, category 2A;H319 Skin sensitizer category 1;H317 Specific target organ toxicity, Specific exposure category 3;H336 Aquatic toxicity (chronic), category 2;H411 Causes serious eye irritation.

May cause an allergic skin reaction. May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.

Label elements





Warning

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

H411 Toxic to aquatic life with long lasting effects.

[Prevention]

P233 Keep container tightly closed.

P261 Avoid breathing dust, fume, gas, mist, vapors, spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.



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P273 Avoid release to the environment.

P280 Wear protective gloves, eye protection, and face protection.

[Response]

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER, doctor or physician if you feel unwell.

P333+313 If skin irritation or a rash occurs: Get medical advice or attention.

P337+313 If eye irritation persists: Get medical advice or attention.

P362+364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

[Storage]

P403+233 Store in a well ventilated place. Keep container tightly closed.

P405 Store locked up.

[Disposal]

P501 Dispose of contents or container in accordance with local and national regulations.

Other hazards

This product contains no PBT/vPvB chemicals.

This product contains no endocrine disrupting chemicals.

Section 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

Ingredient/Chemical	Weight	GHS Classification	Notes
Designations	%		
Tripropylene glycol diacrilate	>=99.5%	Skin corrosion/irritation category	
CAS Number: 42978-66-		3;H316	No data
5		Serious eye damage / eye irritation,	available
Synonyms: Tripropylene		category 2A;H319	
glycol diacrilate		Skin sensitizer category 1;H317	
		Aquatic toxicity (chronic), category	
		2;H411	



Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
		Specific target organ toxicity,	
		Specific exposure category 3;H336	

The actual concentration or concentration range is withheld as a trade secret. *PBT/vPvB - PBT-substance or vPvB-substance. The full texts of the phrases are shown in Section 16

The full texts of the phrases are shown in Section 16.

Section 4. First aid measures

Description of first aid measures

General In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

InhalationRemove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

- **Eyes** Rinse with plenty of clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
- **Skin** Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
- **Ingestion** If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Overview No specific symptom data available. Treat symptomatically. See section 2 for further details.

- **Eyes** Causes serious eye irritation.
- **Skin** May cause an allergic skin reaction. Causes mild skin irritation.

Section 5. Fire-fighting measures

Extinguishing media



Recommended extinguishing media; water spray or fog, carbon dioxide or dry chemical.

Unsuitable Extinguishing Media: High pressure water jet

Protective Equipment

Firefighters, and others exposed, wear self-contained breathing apparatus. Wear full firefighting protective clothing. See MSDS Section 8 (Exposure Controls/Personal Protection).

Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available. Keep container tightly closed. Avoid breathing dust, fume, gas, mist, vapors, spray. Keep containers cool by spraying with water if exposed to fire

Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8). Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Environmental precautions

Do not allow spills to enter drains or waterways.

Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

Section 7. Handling and storage

HANDLING Precautions for safe handling

Handle containers carefully to prevent damage and spillage. This product is inhibited to prevent uncontrolled polymerization. A polymerization can generate heat and pressure and may cause product container to rupture. Check inhibitor content often and add inhibitor to bulk liquid if needed.

See section 2 for further details. - [Prevention]

Conditions for Safe Storage, Including any Incompatibilities

Incompatible materials: Maintain head space in storage containers to support oxygen requirements of the inhibitor(s). Do not blanket or mix with oxygen free gas, and prevent material from freezing (inhibitor can separate from product as a solid). Store drums above 10 /50 and below 32 /90. Bulk storage temperature range:15-27 /59-80. Store drums away from heat sources, strong oxidizers, radiation and other initiators. Use product within six months of receipt for optimum results. If material freezes, heat and mix to redistribute the inhibitor. Product may also be heated to facilitate handling. Heat product container slowly to 40 /104 for not more than 24 hours. Convection ovens or warm

water bath (preferred due to more efficient heat

transfer) are recommended for heating. Do not use drum heater. An air space, preferably an air bubble flow, should be provided for at all times during heating. See section 10 for further details. - [Stability and reactivity]

Storage Temperature: Store at 4 – 40 °C

Reason: Quality

Specific end use(s)

No available information

Section 8. Exposure controls / personal protection

Control parameters

Exposure



CAS No.	Ingredient	Source	Value
42978-66-5	Tripropylene glycol diacrilate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

Exposure controls	
Respiratory	If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.
Eyes	Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.
Skin	Avoid skin contact. Protective gloves recommended.
Engineering	Provide adequate ventilation. Where reasonably practicable this should
Controls	be achieved by using local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical State Color Odor Melting point / freezing point Initial boiling point and boiling range Flammability (solid, gas) Upper/lower flammability or explosive limits	No available information Lower Explosive Limit: No available information Upper Explosive Limit: No available
Flash Point	information Non Flammable (polymerized at 174 °C) Cleveland Open Cup



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Auto-ignition temperature	214 °C 41
Decomposition temperature	No availal
pH	No availal
Viscosity (cSt)	No availal
Solubility in Water	74.8 mg/L
Partition coefficient n-octanol/water	No availal
(Log Kow)	
Vapor pressure (Pa)	0.013 hPa
Relative Density	1.03 g/cn
Vapor Density	No availal

Evaporation rate (Ether = 1) Oxidising properties Explosive properties

Other information No other relevant information. 214 °C 417.2 °F No available information No available information No available information 74.8 mg/L @ 25 °C No available information

).013 hPa @ 25 °C 1.03 g/cm³ No available information

No available information No available information No available information

Section 10. Stability and reactivity

Reactivity

Hazardous Polymerization may occur **Chemical stability** Stable under normal circumstances.

Conditions to avoid: Avoid direct exposure to sunlight. Loss of polymerization inhibitor. Loss of dissolved air.

Possibility of hazardous reactions

No available information

Conditions to avoid

Avoid high temperatures and contact with incompatible material;

Uncontrolled polymerization may cause rapid evolution of heat and increase in pressure that could result in violent rupture of sealed storage vessels or containers Hazardous polymerization can occur when exposed to direct sunlight. Hazardous exothermic polymerization can occur when heated.

Incompatible materials

Avoid contact with peroxides. Copper, copper alloys, carbon steel, iron and rust. Avoid free radical producing initiators. They give an exothermic reaction with the product. Unintentional contact with them should be avoided.

Hazardous decomposition products

Carbon dioxide, Carbon monoxide (CO)

Section 11. Toxicological information

Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Tripropylene glycol diacrilate - (42978- 66-5)	6,200.00, Rat - Category: NA	>2,000.00, Rabbit - Category: 5	No data available.	No data available.	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
42978-66-	Tripropylene glycol	OSHA	Regulated Carcinogen: No;
5	diacrilate	NTP	Known: No; Suspected: No;
			Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit

Classification	Category	Hazard Description
Acute toxicity (oral)		Not Applicable
Acute toxicity (dermal)		Not Applicable
Acute toxicity (inhalation)		Not Applicable
Skin corrosion/irritation		Not Applicable
Serious eye damage/irritation	2A	Causes serious eye irritation.
Respiratory sensitization		Not Applicable
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity		Not Applicable
Carcinogenicity		Not Applicable

Reproductive toxicity	 Not Applicable
STOT-single exposure	 Not Applicable
STOT-repeated exposure	 Not Applicable
Aspiration hazard	 Not Applicable

Possible routes of entry:

Symptoms and effects, both acute and delayed::

No specific symptom data available. Treat symptomatically.

Eyes Causes serious eye irritation.

Skin May cause an allergic skin reaction. Causes mild skin irritation.

Section 12. Ecological information

Toxicity

Toxic to aquatic life with long lasting effects.

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
Tripropylene glycol diacrilate -	No data	No data available.	No data
(42978-66-5)	available.		available.

Persistence and degradability

There is no data available on the preparation itself. Bioaccumulative potential No available information Mobility in soil No available information Results of PBT and vPvB assessment This product contains no PBT/vPvB chemicals. Other adverse effects No available information



Section 13. Disposal considerations

Waste treatment methods

Observe all federal, provincial and local regulations when disposing of this substance.

Section 14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN numbe	rUN3082	UN3082	UN3082
UN proper	UN3082,Environmentally	Environmentally	Environmentally
shipping	hazardous substances, liquid,	hazardous	hazardous
name	n.o.s. (CHEMICAL NAME),9,II	l substances, liquid, n.o.s. (CHEMICAL NAME)	substances, liquid, n.o.s. (CHEMICAL NAME)
Transport	DOT Hazard Class:9	IMDG:9	Air Class:9
hazard class(es) Packing group	Sub Class: Not Applicable	Sub Class: Not Applicable III	Sub Class: Not Applicable III

Environmental hazards

Marine Pollutant: Yes; (Tripropylene glycol diacrilate) **Special precautions for user**

No available information

Section 15. Regulatory information

Regulatory The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7)



Toxic Substance Control Act (TSCA)

CAS Number	Ingredient	Toxic Substance Control Act (TSCA)	Comments	Status
	Tripropylene glycol diacrilate	Yes		ACTIVE

The following flags are used:

•Active - indicates commercial status designation of active

•E - indicates a substance that is the subject of a Section 5(e) Consent Order under TSCA.

•F - indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

•N - indicates a polymeric substance containing no free-radical initiator in its Inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

•P - indicates a commenced Premanufacture Notice (PMN) substance.

•R - indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

•S - indicates a substance that is identified in a final Significant New Uses Rule.

•SP - indicates a substance that is identified in a proposed Significant New Uses Rule.

•T - indicates a substance that is the subject of a final Section 4 test rule under TSCA.

•UVCB Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials •XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

•Y1 - indicates a polymer that has a number-average molecular weight greater than 1,000 and that was exempt under the 1984 polymer exemption rule.

•Y2 - indicates a polymer that is a polyester and that was exempt under the 1984 polymer exemption rule.

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.



Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 Label Warning:

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Mass RTK Substances (>1%) :

New Jersey RTK Substances (>1%) :

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Pennsylvania RTK Substances (>1%) :

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

OSHA Process Safety Management Standard Highly Hazardous Chemicals, Toxics and Reactives:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

US EPA List of Regulated Substances under the Risk Management Plan (RMP) Program:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

US EPA Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) under the Minimum Risk Exemption:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

U.S. - DEA List II or Essential Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

U.S. - DEA - Exempt Chemical Mixtures - List 1 and 2:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.



US DHS Chemical Facility Anti-Terrorism Standards (CFATS):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Section 16. Other information

Revision Date

08/16/2024

DISCLAIMER OF RESPONSIBILITY

The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume damage or expense arising out of or in any way responsibility and expressly disclaim liability for loss, connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.

The full text of the phrases appearing in section 3 is:

H316 Causes mild skin irritation.

- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness and dizziness.
- H411 Toxic to aquatic life with long lasting effects.

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