ALADDIN SCIENTIFIC CORPORATION
14078 Meridian Parkway, Riverside, CA. 92518

SAFETY DATA SHEET

Version: v1
Revision Date: 2024-01-16
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SECTION 1:Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name	: Tripropylene Glycol Diacrylate
Product Number	: T162230
Brand	: aladdin
CAS-No.	: 42978-66-5

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

Identified uses	: Laboratory chemicals,Manufacture of substances.

1.3 Company

Company	: ALADDIN SCIENTIFIC CORPORATION
Address	: 14078 Meridian Parkway,
Riverside, CA. 92518	
Telephone	: +1 (833) 552-7181
Fax	: no data available

1.4 Emergency telephone number

CHEMTREC®, Inside the USA	: 1-800-424-9300
CHEMTREC®, Outside the USA	:

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin corrosion/irritation (Category 2), H315
Severe eye injury/eye irritation (Category 2A), H319
Skin allergy (Category 1), H317
Specific target organ systemic toxicity (single exposure) (Category 3), respiratory irritation, H335
Acute (short-term) aquatic hazards (Category 2), H401
Long term aquatic hazards (Category 2), H411

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s)

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H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H411	Toxic to aquatic life with long lasting effects
Precautionary statement(s)	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands [and …] 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.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P391	Collect spillage.
P302+P352	IF ON SKIN: wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P333+P313	IF SKIN irritation or rash occurs: Get medical advice/attention.
P337+P313	IF eye irritation persists: Get medical advice/attention.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to an approved waste disposal plant.
P304+P340+P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing.Call a POISON CENTER or doctor. if you feel unwell.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	:	Tri(propylene glycol) diacrylate
Formula	:	C15H24O6
Molecular weight	:	300.35
CAS No.	:	42978-66-5
EC-NO.	:	no data available

Component	Classification	Concentration
Tripropylene Glycol Diacrylate		

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Component	Classification	Concentration
	no data available	90%(total of isomer) ，stabilized with MEHQ

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice
Show this material safety data sheet to the doctor in attendance.
If inhaled
If inhaled, please move the patient to fresh air. If breathing stops, give artificial respiration.
In case of skin contact
Rinse with soap and plenty of water. Consult a doctor.
In case of eye contact
Thoroughly rinse with plenty of water for at least 15 minutes and consult a doctor.
If swallowed
Do not feed anything from the mouth to an unconscious person. Rinse your mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water,Foam,Carbon dioxide (CO2),Dry powder
Unsuitable extinguishing media
no data available

5.2 Special hazards arising from the substance or mixture

no data available

5.3 Advice for firefighters

If necessary, wear self-contained breathing apparatus for firefighting operations.

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours.Avoid contacting with skin and eye. Use personal protective equipment.Wear chemical impermeable gloves. Ensure adequate ventilation.Remove all sources of ignition. Evacuate personnel to safe areas.Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Operators should be specially trained and strictly abide by the operating procedures. Operation and disposal should be carried out in a place with local ventilation or general ventilation facilities. Avoid eye and skin contact and avoid breathing vapor. See Section 8 for personal protective measures. Keep away from fire and heat sources, and smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. If canning is required, the flow rate should be controlled, and there should be a grounding device to prevent the accumulation of static electricity. Avoid contact with incompatible substances such as oxidizing agents (see section 10 for incompatible substances). When handling, it should be lightly loaded and unloaded to prevent damage to packaging and containers. Empty containers may be harmful residues. Wash hands after use and prohibit eating or drinking in the workplace. Equipped with the corresponding variety and quantity of fire fighting equipment and leakage emer

7.2 Conditions for safe storage, including any incompatibilities

Room temperature storage, sensitive to humidity and light, and filled with argon for storage

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection,use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU).

Control of environmental exposure

If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	form: liquid color: colorless to pale yellow
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	no data available
g) Flash point	172°C(lit.)
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	1.04
n) Water solubility	no data available

o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties N	no data available
t) Oxidizing properties N	no data available

9.2 Other safety information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

Photopolymerization. Moisture proof. Strong heating

10.5 Incompatible materials

Oxidizing agents: strong acids, strong oxidizing agents, strong alkalis, brass, copper, steel (various models and surface treatments), iron and iron salts

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 oral - rat - female ->2000 mg/kg (2-acrylic acid - (1-methyl-1,2-ethylene) bis （β- Methoxyethyl ester)
(OECD Testing Guidelines 423)
Inhalation: No data available
LD50 transdermal - rabbit - male and female ->2000 mg/kg (2-acrylic acid - (1-methyl-1,2-ethylene) bis （β-Methoxyethyl ester)
(OECD Testing Guidelines 402)

Skin corrosion/irritation
Note: Causes skin irritation. Classification according to EU CLP Regulation 1272/2008, Annex 6 (Tables 3.1/3.2)

Serious eye damage/eye irritation
Eye rabbit (2-acrylic acid - (1-methyl-1,2-ethylene) bis （β- Methoxyethyl ester) Result: Mild eye irritation -24 hours (OECD Testing Guidelines 405) Note: Causes severe eye irritation. Classification according to EU CLP Regulation 1272/2008, Annex 6 (Tables 3.1/3.2)
Respiratory or skin sensitisation
Local lymph node assay (LLNA) - mouse (2-acrylic acid - (1-methyl-1,2-ethylene) bis （β- Methoxyethyl ester) Result: Positive (OECD Testing Guidelines 429) May cause skin allergic reactions. Classification according to EU CLP Regulation 1272/2008, Annex 6 (Table 3.1/3.2) (2-Acrylic acid - (1-methyl1,2-ethylene) bis （β- Methoxyethyl ester)
Germ cell mutagenicity
Test type: Gene mutation test (2-Acrylic acid - (1-methyl-1,2-ethylene) bis （β- Methoxyethyl ester) Testing system: Chinese hamster ovarian cells Metabolic activation: with or without metabolic activation effect Method: OECD Testing Guidelines 476 Result: Negative Test type: In vitro mammalian cell gene mutation test (2-Acrylic acid - (1-methyl-1,2-ethylene) bis （β- Methoxyethyl ester) Testing system: Mouse lymphoma cells Metabolic activation: with or without metabolic activation effect Result: Positive Remarks: (ECHA) (2-Acrylic acid - (1-methyl-1,2-ethylene) bis （β- Methoxyethyl ester) Test type: In vivo micronucleus test Species: Mice Route of infection: intraperitoneal Method: OECD Testing Guidelines 474 Result: Negative
Carcinogenicity
no data available
Reproductive toxicity
no data available
Specific target organ toxicity - single exposure
May cause respiratory irritation- Respiratory system (2-acrylic acid - (1-methyl-1,2-ethylene) bis （β- Methoxyethyl ester)
Specific target organ toxicity - repeated exposure
no data available
Aspiration hazard
no data available
Additional Information
Repeated toxicity - rats - male and female - oral - no harmful effects observed -375 mg/kg (2-acrylic acid - (1-methyl-1,2-ethylene) bis （β- Methoxyethyl ester)
Repeated toxicity - rats - male and female - transdermal -90 days - minimum level of observed harmful effects -20 mg/kg (2-acrylic acid - (1-methyl-1,2-ethylene) bis （β- Methoxyethyl ester)
Registration of toxic effects of chemical substances: AT4690000 To our knowledge, this chemical, physical, and toxic property has not been fully studied. (2-Acrylic acid - (1-methyl-1,2-ethylene) bis （β- Methoxyethyl ester)

SECTION 12: Ecological information

12.1 Toxicity

Toxicity static test for fish LC50- Leuciscus idus (high body Yaluo fish) ->4.6-<10 mg/l -96 h (2-acrylic acid - (1-methyl-1,2-ethylene) bis （β- Methoxyethyl ester)
(German Industrial Standard (DIN) 38412)
Toxicity to Daphnia and other aquatic invertebrates
Static test EC50- Daphnia magna Straus (Daphnia magna) -89 mg/l -48 hours (2-acrylic acid - (1-methyl-1,2-ethylene)

bis （β- Methoxyethyl ester)
(Regulation (EC) No. 440/2008, Annex C-2)
Toxicity static test on algae ErC50- Desmodesmus subspicatus (Pseudomonas aeruginosa) -65.9 mg/l -72 h (2-acrylic acid - (1-methyl-1,2-ethylene) bis （β- Methoxyethyl ester)
(German Industrial Standard (DIN) 38412)
Toxic respiratory inhibition of bacteria EC50- sludge treatment ->1000 mg/l -30 minutes (2-acrylic acid - (1-methyl-1,2-ethylene) bis （β- Methoxyethyl ester)
(OECD Testing Guidelines 209)

12.2 Persistence and degradability

Aerobic - Exposure time 28 days (2-acrylic acid - (1-methyl-1,2-ethylene) bis （β- Methoxyethyl ester) Result: 48% - partially biodegradable. (OECD Test Guide 301B)

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

SECTION 13:

13.1 Disposal considerations

Product
Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.
Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

DOT (US)
UN number: 3082 Packing group: III Class: 9

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Proper shipping name: Liquid substances harmful to the environment, not otherwise specified (2-acrylic acid - (1-methyl-1,2-ethylene) bis （β-Methoxyethyl ester)
Environmental Hazards: yes

Reportable Quantity(RQ): no data available

Poison Inhalation Hazard: no data available

IMDG

UN number: 3082 | Packing group: III | EMS-No: no data available

Proper shipping name: Liquid substances harmful to the environment, not otherwise specified (2-acrylic acid - (1-met 1,2-ethylene) bis （β- Methoxyethyl ester)

IATA

UN number: 3082 | Packing group: III | Class: 9

Proper shipping name: Liquid substances harmful to the environment, not otherwise specified (2-acrylic acid - (1-met 1,2-ethylene) bis （β- Methoxyethyl ester)

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

SECTION 16: Other information

Prepared By	Regulatory Affairs ALADDIN SCIENTIFIC CORPORATION Email: QualityAssurance@aladdinsci.com
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Disclaimer

 The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Aladdin Co. Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.