



SAFETY DATA SHEET FLEXIBLE POLYESTER ACRYLATE IN TPGDA

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name FLEXIBLE POLYESTER ACRYLATE IN TPGDA
Product number 47944
Synonyms; trade names ELITE UVP 6000-TP20

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

Identified uses Adhesive. Sealant. Surface coating inks Laboratory reagent.

1.3. Details of the supplier of the safety data sheet

Supplier Univar
Aquarius House
6 Mid Point Business Park
Bradford
BD3 7AY
+44 1274 267300
sds@univar.com
+44 1274 267306

1.4. Emergency telephone number

Emergency telephone SGS - +32 (0)3 575 55 55 (24h)
Sds No. 47944

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC/1272/2008)

Physical hazards Not Classified
Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT SE 3 - H335
Environmental hazards Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC) Xi; R36/37/38. R52/53, R43

2.2. Label elements

Pictogram



Signal word Warning

FLEXIBLE POLYESTER ACRYLATE IN TPGDA

Hazard statements

H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 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 if you feel unwell.
 P321 Specific treatment (see medical advice on this label).

Contains

2-HYDROXYETHYL ACRYLATE

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

TRIPROPYLENE GLYCOL DIACRYLATE		10-30%
CAS number: 42978-66-5 EC number: 256-032-2		
Classification	Classification (67/548/EEC or 1999/45/EC)	
Skin Irrit. 2 - H315	Xi;R36/37/38. N;R51/53. R43.	
Eye Irrit. 2 - H319		
Skin Sens. 1 - H317		
STOT SE 3 - H335		
Aquatic Chronic 2 - H411		
2-HYDROXYETHYL ACRYLATE		<1%
CAS number: 818-61-1 EC number: 212-454-9		
M factor (Acute) = 1		
Classification	Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 3 - H311	T;R24 C;R34 R43 N;R50	
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
Skin Sens. 1 - H317		
Aquatic Acute 1 - H400		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion

Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.

Skin contact

Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

FLEXIBLE POLYESTER ACRYLATE IN TPGDA

Eye contact Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation May cause respiratory irritation.

Skin contact Irritating to skin. May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Specific hazards The product is non-combustible. Toxic gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO₂).

5.3. Advice for firefighters

Protective actions during firefighting Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Contain and collect extinguishing water.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Take precautionary measures against static discharges. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Static electricity and formation of sparks must be prevented. Keep away from heat, sparks and open flame. Provide adequate ventilation. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from freezing and direct sunlight. Store at temperatures above 0°C.

FLEXIBLE POLYESTER ACRYLATE IN TPGDA

Storage class Chemical storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

TRIPROPYLENE GLYCOL DIACRYLATE (CAS: 42978-66-5)

Ingredient comments WEL = Workplace Exposure Limits

2-HYDROXYETHYL ACRYLATE (CAS: 818-61-1)

Ingredient comments No exposure limits known for ingredient(s).

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield. EN 166

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. EN 374

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin.

Respiratory protection

No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs. EN 136/140/145/143/149

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Light (or pale). Green. Grey.
Odour	Odourless.
Initial boiling point and range	> 35°C @ 101.3 kPa
Flash point	> 93°C
Relative density	1.17 @ 25°C
Solubility(ies)	Insoluble in water. Soluble in the following materials: Organic solvents.

FLEXIBLE POLYESTER ACRYLATE IN TPGDA

9.2. Other information

Volatile organic compound This product contains a maximum VOC content of 0 g/l.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Does not decompose when used and stored as recommended.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions May polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid Strong alkalis. Strong reducing agents. Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition products Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - dermal

ATE dermal (mg/kg) 300,000.0

Toxicological information on ingredients.

TRIPROPYLENE GLYCOL DIACRYLATE

Inhalation	Irritating to respiratory system. Vapours irritate the respiratory system. May cause coughing and difficulties in breathing.
Ingestion	May cause discomfort if swallowed.
Skin contact	Irritating to skin. May cause sensitisation by skin contact.
Eye contact	Irritating to eyes.

2-HYDROXYETHYL ACRYLATE

Acute toxicity - dermal

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 1.87

Inhalation	Vapours irritate the respiratory system. May cause coughing and difficulties in breathing.
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FLEXIBLE POLYESTER ACRYLATE IN TPGDA

Ingestion	Swallowing concentrated chemical may cause severe internal injury.
Skin contact	Toxic in contact with skin. Causes burns. May cause sensitisation by skin contact.
Eye contact	Causes burns.

SECTION 12: Ecological Information

Ecological information on ingredients.

TRIPROPYLENE GLYCOL DIACRYLATE

Ecotoxicity	The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.
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2-HYDROXYETHYL ACRYLATE

Ecotoxicity	The product contains a substance which is very toxic to aquatic organisms.
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12.1. Toxicity

Ecological information on ingredients.

TRIPROPYLENE GLYCOL DIACRYLATE

Toxicity	Toxic to aquatic life with long lasting effects.
Acute toxicity - fish	LC ₅₀ , 96 hours: 4.6 - 10 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 89 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC ₅₀ , 72 hours: 65.9 mg/l, Algae

2-HYDROXYETHYL ACRYLATE

Toxicity	Very toxic to aquatic organisms.
<u>Acute aquatic toxicity</u>	
LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 96 hours: 4.8 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 0.78 mg/l, Daphnia magna

12.2. Persistence and degradability

Ecological information on ingredients.

TRIPROPYLENE GLYCOL DIACRYLATE

Persistence and degradability	The product is not readily biodegradable.
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2-HYDROXYETHYL ACRYLATE

FLEXIBLE POLYESTER ACRYLATE IN TPGDA

Persistence and degradability

The product is readily biodegradable.

12.3. Bioaccumulative potential

Ecological information on ingredients.

TRIPROPYLENE GLYCOL DIACRYLATE

Bioaccumulative potential

The product is not bioaccumulating.

Partition coefficient

: 2

2-HYDROXYETHYL ACRYLATE

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

: -0.21

12.4. Mobility in soil

Ecological information on ingredients.

TRIPROPYLENE GLYCOL DIACRYLATE

Mobility

The product contains volatile organic compounds (VOCs) which have a photochemical ozone creation potential.

2-HYDROXYETHYL ACRYLATE

Mobility

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Ecological information on ingredients.

TRIPROPYLENE GLYCOL DIACRYLATE

Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

2-HYDROXYETHYL ACRYLATE

Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Ecological information on ingredients.

TRIPROPYLENE GLYCOL DIACRYLATE

Other adverse effects

Not determined.

2-HYDROXYETHYL ACRYLATE

Other adverse effects

Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

Waste is classified as hazardous waste. Do not puncture or incinerate, even when empty.

FLEXIBLE POLYESTER ACRYLATE IN TPGDA

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

**Annex II of MARPOL 73/78
and the IBC Code**

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Commission Regulation (EU) No 453/2010 of 20 May 2010.

15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

All the ingredients are listed or exempt.

SECTION 16: Other information

Revision date 25/02/2016

Revision 01

FLEXIBLE POLYESTER ACRYLATE IN TPGDA

SDS number	47944
SDS status	Approved.
Risk phrases in full	R24 Toxic in contact with skin. R34 Causes burns. R36/37/38 Irritating to eyes, respiratory system and skin. R43 May cause sensitisation by skin contact. R50 Very toxic to aquatic organisms. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Signature	P Cooper
Hazard statements in full	H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects.