

SAFETY DATA SHEET



UVILUX PRIMER 1754-11 - TS 21082 GRAFIT

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

1.1 Product identifier

Product name : UVILUX PRIMER 1754-11 - TS 21082 GRAFIT

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

Product use : Paint.

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

e-mail address of person responsible for this SDS : Prod-safe@teknos.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : Emergency medical information: (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland.
Members of the public Number (8 am-10 pm): +353 (0)1 809 2166
Healthcare professional telephone Number (24hrs): +353 (0)1 809 2566

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Irrit. 2, H315
Eye Dam. 1, H318
Skin Sens. 1, H317
Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention : P280 - Wear protective gloves. Wear eye or face protection.
P273 - Avoid release to the environment.

Response : P391 - Collect spillage.
P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor.

Date of issue/Date of revision : 03/12/2025 **Date of previous issue** : 21/08/2023

Version : 2 1/21

UVILUX PRIMER 1754-11 - TS 21082 GRAFIT

Label No : 137173

SECTION 2: Hazards identification

Storage	: Not applicable.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: Contains: exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate; 2-Propenoic acid, reaction products with dipentaerythritol; 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide and Dipropylenglycol diacrylate
Supplemental label elements	:
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	REACH #: 01-2119886505-27 EC: 231-403-1 CAS: 7534-94-3	≥10 - ≤25	Aquatic Chronic 3, H412	-	[1]
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	REACH #: 01-2119957862-25 EC: 227-561-6 CAS: 5888-33-5	≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
2-Propenoic acid, reaction products with dipentaerythritol	REACH #: 01-2119980666-22 CAS: 1384855-91-7	≤10	Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 3, H412	-	[1]
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide	REACH #: 01-2120140608-57 EC: 810-703-1 CAS: 1187441-10-6	≤5	Eye Dam. 1, H318 Skin Sens. 1B, H317	-	[1]
Dipropylenglycol diacrylate	REACH #: 01-2119484629-21 EC: 260-754-3 CAS: 57472-68-1	≤3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317	-	[1]
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	REACH #: 01-2119489900-30 EC: 500-066-5 CAS: 28961-43-5	≤3	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1]
(1-methyl-1,2-ethanediyl)bis	REACH #:	≤2.8	Skin Irrit. 2, H315	STOT SE 3, H335:	[1]

SECTION 3: Composition/information on ingredients

[oxy(methyl-2,1-ethanediyl)] diacrylate	01-2119484613-34 EC: 256-032-2 CAS: 42978-66-5 Index: 607-249-00-X		Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 2, H411	C ≥ 10%	
Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-	REACH #: 01-2119489401-38 EC: 423-340-5 CAS: 162881-26-7 Index: 015-189-00-5	≤3	Skin Sens. 1A, H317 Aquatic Chronic 4, H413	-	[1]
Acrylated resin	-	≤3	Eye Irrit. 2, H319	-	[1]
2-Propenoic acid, reaction products with pentaerythritol	CAS: 1245638-61-2	≤3	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/kg	[1]
copper bis (dimethyldithiocarbamate)	REACH #: 01-2120770993-40 EC: 205-287-8 CAS: 137-29-1	≤0.027	Acute Tox. 2, H330 Aquatic Acute 1, H400 See Section 16 for the full text of the H statements declared above.	ATE [Inhalation (dusts and mists)] = 0.12 mg/l M [Acute] = 10	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

☒ Substance classified with a health or environmental hazard

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

- : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

- : ☒ Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

- : Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

SECTION 4: First aid measures

- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Ingestion** : Adverse symptoms may include the following:
stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** :  Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous combustion products** :  Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
phosphorus oxides
metal oxide/oxides

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

SECTION 5: Firefighting measures

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

- : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and material for containment and cleaning up

- Small spill** :  Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** :  Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

6.4 Reference to other sections

- : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

SECTION 7: Handling and storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
E2	200 tonnes	500 tonnes

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
No exposure limit value known.	

Biological exposure indices

Product/ingredient name	Exposure indices
No exposure indices known.	

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate

Result

DNEL - General population - Long term - Oral

0.21 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Dermal

0.21 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

0.35 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

0.36 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

SECTION 8: Exposure controls/personal protection

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl
acrylate

1.22 mg/m³

Effects: Systemic

DNEL - General population - Long term - Oral

0.83 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Dermal

0.83 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

1.39 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

1.45 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

4.9 mg/m³

Effects: Systemic

Dipropylenglycol diacrylate

DNEL - Workers - Long term - Dermal

1.7 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Inhalation

2.35 mg/m³

Effects: Systemic

Propylidynetrimethanol, ethoxylated, esters
with acrylic acid

DNEL - Workers - Long term - Dermal

10.5 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Inhalation

37 mg/m³

Effects: Systemic

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-
2,1-ethanediyl)] diacrylate

DNEL - Workers - Long term - Dermal

1.7 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Inhalation

2.35 mg/m³

Effects: Systemic

Phosphine oxide, phenylbis
(2,4,6-trimethylbenzoyl)-

DNEL - Workers - Long term - Inhalation

21 mg/m³

Effects: Systemic

DNEL - Workers - Short term - Inhalation

21 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Dermal

3.3 mg/kg

Effects: Systemic

DNEL - Workers - Short term - Dermal

3.3 mg/kg

Effects: Systemic

**DNEL - General population - Consumers - Long term -
Inhalation**

5.2 mg/m³

SECTION 8: Exposure controls/personal protection

Effects: Systemic

DNEL - General population - Consumers - Long term - Dermal

1.5 mg/kg

Effects: Systemic

DNEL - General population - Consumers - Long term - Oral

1.5 mg/kg

Effects: Systemic

DNEL - General population - Short term - Oral

1.67 ng/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Oral

1.5 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Dermal

1.5 mg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Dermal

1.67 mg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Inhalation

1.93 mg/m³

Effects: Systemic

DNEL - General population - Long term - Inhalation

1.93 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Dermal

3 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Short term - Dermal

3.33 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Short term - Inhalation

7.84 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

7.84 mg/m³

Effects: Systemic

PNECs

Not available.

8.2 Exposure controls

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

SECTION 8: Exposure controls/personal protection

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Recommendations : Wear suitable gloves tested to EN374.
- < 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
- 1 - 4 hours (breakthrough time): 4H / Silver Shield® gloves.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Filter type: A
- Filter type (spray application): A P
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : Liquid.
- Colour** : Grey.
- Odour** : Slight
- Odour threshold** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** :

Ingredient name	°C	°F	Method
1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	>120	>248	
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	>168	>334.4	EU A.2

SECTION 9: Physical and chemical properties

Flammability	: Not available.
Lower and upper explosion limit	: Lower: Not applicable. Upper: Not applicable.
Flash point	: Closed cup: >100°C (>212°F)
Auto-ignition temperature	:

Ingredient name	°C	°F	Method
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	>131.4	>268.5	EU A.16
Dipropylenglycol diacrylate	240	464	DIN 51794

Decomposition temperature	: Not available.
pH	: Not applicable.
Viscosity	: Not available.
Solubility(ies)	: Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/ water : Not applicable.

Vapour pressure :

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	0.009	0.0012	EU A.4			
Dipropylenglycol diacrylate	0.00064	0.000085	OECD 104			

Relative density : Not available.

Density : 1.3 g/cm³

Vapour density : Not available.

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties	: Not available.
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Oxidising properties : Not available.

9.2.2 Other safety characteristics

Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

Result

Rat - Oral - LD50

4890 mg/kg

Toxic effects: Behavioral - Tremor Lung, Thorax, or Respiration - Dyspnea Other - Hair

Rabbit - Dermal - LD50

>5 g/kg

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide

Rat - Oral - LD50

>2000 mg/kg

Rabbit - Dermal - LD50

>2000 mg/kg

Dipropylenglycol diacrylate

Rat - Oral - LD50

4600 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Gastrointestinal - Hypermotility, diarrhea

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

Rabbit - Dermal - LD50

>13 g/kg

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

Rat - Oral - LD50

6200 mg/kg

Toxic effects: Eye - Ptosis Lung, Thorax, or Respiration - Respiratory depression Other - Hair

Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-

Rat - Oral - LD50

>2000 mg/kg

OECD [Acute Oral Toxicity]

copper bis(dimethyldithiocarbamate)

Rat - Oral - LD50

>5000 mg/kg

Rabbit - Dermal - LD50

>2000 mg/kg

Rat - Inhalation - LC50 Dusts and mists

0.12 mg/l [4 hours]

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
UVILUX PRIMER 1754-11	49802.8	N/A	N/A	N/A	N/A
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	4890	N/A	N/A	N/A	N/A
Dipropylenglycol diacrylate	4600	N/A	N/A	N/A	N/A
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	6200	N/A	N/A	N/A	N/A
2-Propenoic acid, reaction products with pentaerythritol	500	N/A	N/A	N/A	N/A
copper bis(dimethyldithiocarbamate)	N/A	N/A	N/A	N/A	0.12

Skin corrosion/irritation

SECTION 11: Toxicological information

Product/ingredient name

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

Dipropylenglycol diacrylate

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

Result

Rabbit - Skin - Moderate irritant

Amount/concentration applied: 500 uL

Rabbit - Skin - Severe irritant

Amount/concentration applied: 500 mg

Rabbit - Skin - Moderate irritant

Amount/concentration applied: 500 mg

Rabbit - Skin - Moderate irritant

Amount/concentration applied: 500 mg

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

Dipropylenglycol diacrylate

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

Result

Rabbit - Eyes - Mild irritant

Amount/concentration applied: 100 uL

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 100 mg

Rabbit - Eyes - Moderate irritant

Amount/concentration applied: 100 mg

Rabbit - Eyes - Severe irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 uL

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Product/ingredient name

Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-

Result

Guinea pig - skin

OECD [Skin Sensitization]

Result: Sensitising

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Product/ingredient name

Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-

Result

Bacteria

Result: Negative

Conclusion/Summary [Product] : Not available.

Carcinogenicity

SECTION 11: Toxicological information

Not available.

Conclusion/Summary [Product] : Not available.

Ingredient name

Phosphine oxide, phenylbis
(2,4,6-trimethylbenzoyl)-

Conclusion/Summary

No results available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl
acrylate
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-
2,1-ethanediyl)] diacrylate

Result

STOT SE 3, H335 (Respiratory tract irritation)

STOT SE 3, H335 (Respiratory tract irritation)

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

Not available.

Potential acute health effects

- Eye contact** : Causes serious eye damage.
Inhalation : No known significant effects or critical hazards.
Skin contact : Causes skin irritation. May cause an allergic skin reaction.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
Inhalation : No specific data.
Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
Ingestion : Adverse symptoms may include the following:
stomach pains

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

- Potential immediate effects** : Not available.
Potential delayed effects : Not available.

Long term exposure

- Potential immediate effects** : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Not available.

SECTION 11: Toxicological information

Conclusion/Summary [Product] : Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide

Result

LC50 - Fresh water

OECD [Fish, Acute Toxicity Test]

Fish - *Cyprinus carpio*

>100 mg/l [96 hours]

EC50

Daphnia - Daphnia - *Daphnia magna*

>100 mg/l [48 hours]

Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-

Acute - LC50

OECD [Fish, Acute Toxicity Test]

Fish - *Brachydanio rerio*

>0.09 mg/l [96 hours]

Acute - EC50

Daphnia sp. Acute Immobilization Test and Reproduction Test

Daphnia - *Daphnia magna*

>1.175 mg/l [48 hours]

EC50

Alga, Growth Inhibition Test

Aquatic plants - *Desmodesmus subspicatus*

≥0.26 mg/l [72 hours]

NOEC - Fresh water

OECD [Daphnia Magna Reproduction Test]

Daphnia - *Daphnia magna*

≥0.008 mg/l [21 days]

copper bis(dimethyldithiocarbamate)

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*

Size: 38 to 64 mm; Weight: 1 to 2 g

71 µg/l [96 hours]

Effect: Mortality

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide	-	71%; 28 day(s)	Readily
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	-	-	Readily
Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	5.09	-	High
Dipropylenglycol diacrylate	0.01 to 0.39	-	Low
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	2.89	-	Low
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	2	-	Low
Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-	5.77	<5	Low
2-Propenoic acid, reaction products with pentaerythritol	1.45	-	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Koc
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	3.2	1501.87
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	3.2	1609.94
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	2.9	803.136
Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-	5	108908
copper bis(dimethyldithiocarbamate)	1.8	59.2181

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	No	No	No	No	No	No	No
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	No	No	No	No	No	No	No
2-Propenoic acid, reaction products with dipentaerythritol	No	No	No	No	No	No	No
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide	No	No	No	No	No	No	No
Dipropylenglycol diacrylate	No	No	No	No	No	No	No
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	No	No	No	No	No	No	No
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	No	No	No	No	No	No	No

SECTION 12: Ecological information

Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-	No	No	No	No	No	No	No
Acrylated resin	No	No	No	No	No	No	No
2-Propenoic acid, reaction products with pentaerythritol	No	No	No	No	No	No	No
copper bis (dimethyldithiocarbamate)	No	No	No	No	No	No	No

Mobility : Not available.

Conclusion/Summary : The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
exo-1,7,7-trimethylbicyclo [2.2.1]hept-2-yl methacrylate	No	N/A	N/A	No	N/A	N/A	N/A
exo-1,7,7-trimethylbicyclo [2.2.1]hept-2-yl acrylate	No	N/A	N/A	No	N/A	N/A	N/A
2-Propenoic acid, reaction products with dipentaerythritol	No	N/A	N/A	No	N/A	N/A	N/A
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide	No	N/A	N/A	No	N/A	N/A	N/A
Dipropylenglycol diacrylate	No	N/A	N/A	No	N/A	N/A	N/A
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	No	N/A	N/A	No	N/A	N/A	N/A
(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)] diacrylate	No	N/A	N/A	No	N/A	N/A	N/A
Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-	No	N/A	No	Yes	No	N/A	No
Acrylated resin	No	N/A	N/A	No	N/A	N/A	N/A
2-Propenoic acid, reaction products with pentaerythritol	No	N/A	N/A	No	N/A	N/A	N/A
copper bis (dimethyldithiocarbamate)	No	N/A	N/A	No	N/A	N/A	N/A

Regulation (EC) No. 1272/2008 [CLP]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
exo-1,7,7-trimethylbicyclo [2.2.1]hept-2-yl methacrylate	No	No	No	No	No	No	No
exo-1,7,7-trimethylbicyclo [2.2.1]hept-2-yl acrylate	No	No	No	No	No	No	No
2-Propenoic acid, reaction products with dipentaerythritol	No	No	No	No	No	No	No
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide	No	No	No	No	No	No	No
Dipropylenglycol diacrylate	No	No	No	No	No	No	No
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	No	No	No	No	No	No	No
(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)] diacrylate	No	No	No	No	No	No	No
Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-	No	No	No	No	No	No	No
Acrylated resin	No	No	No	No	No	No	No

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2-Propenoic acid, reaction products with pentaerythritol copper bis (dimethyldithiocarbamate)	No	No	No	No	No	No	No
	No	No	No	No	No	No	No

Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP] :  The product does not meet the criteria to be considered as a PBT or vPvB.

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] :  The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Yes.

European waste catalogue (EWC) : 080111*

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT)
14.3 Transport hazard class(es)	9 	9 	9 	9 
14.4 Packing group	III	III	III	III

SECTION 14: Transport information

14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.
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Additional information

- ADR/RID** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
Tunnel code (-)
- ADN** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
- IMDG** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
- IATA** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

- 14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

- 14.7 Maritime transport in bulk according to IMO instruments** : Not relevant/applicable due to nature of the product.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
UVILUX PRIMER 1754-11	≥90	3

Labelling :

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Explosive precursors : Not applicable.

Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

SECTION 15: Regulatory information

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

E2

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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SECTION 16: Other information

H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Full text of classifications [CLP/GHS]

Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

Date of issue/ Date of revision : 03/12/2025

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Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

