

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

1.1. Product identifier

Product name: Optimax® UV-3088
Product code: Optimax® UV-3088
UFI: P02T-J669-3AAC-0Y6X
Product form: Mixture

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

Use of substance / mixture: Adhesive
1.2.1 Relevant Identified uses: Adhesive
1.2.2 Uses advised against: For professional/Industrial use only

1.3. Details of the supplier of the safety data sheet

Company Name: Novachem Corporation Ltd
U4 Dunboyne Industrial Estate
Dunboyne
Co. Meath
Ireland
International Tel: 00353-1-8026554
technicalsupport@novachem.ie
UK: 0044 (0) 2081442098
technicalsupport@novachem-uk.co.uk

1.4 Emergency telephone number

Emergency telephone: Novachem Corporation Ltd: 00353-1-8026554 (Mon-Fri 08.00-17.00hrs).
National Poisons Centre, Beaumont Hospital, Beaumont, Dublin 9.
Ireland. Enquiries Tel: 00353-1-809-2166. 8am-10pm 7 days a week.
The National Poisons Information Centre is open 24hr for healthcare professionals treating poisoned patients. Tel: 00353-1-809-2566.

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Skin corrosion/irritation, Category 2 - H315
Serious eye damage/eye irritation, Category 2 - H319
Skin sensitisation, Category 1 - H317
Reproductive toxicity, Category 1B- H360Fd
Most important adverse effects: No data available

2.2. Label elements

Label elements under CLP:

Hazard statements:

Skin corrosion/irritation, Category 2 - H315
Serious eye damage/eye irritation, Category 2 - H319
Skin sensitisation, Category 1 - H317
Reproductive toxicity, Category 1B- H360Fd

Signal words:

Danger

Contains:

2-hydroxyethyl methacrylate, 4-(1,1-dimethylethyl)cyclohexyl methacrylate, Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, Hydroxypropyl Methacrylate, 2-Propenoic Acid, 2-Methyl-, 2-Hydroxyethyl Ester, Reaction Products with Phosphorus Oxide
GHS07: GHS08

Hazard pictograms:



Precautionary statements:

P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing vapours.
P264 - Wash hands thoroughly after handling.
P280 - Wear eye protection, protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

Component	Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII
Hydroxypropyl Methacrylate (27813-02-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Acrylic Acid (79-10-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Section 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2. Substances/Preparation:

Name	Product Identifier	%	Classification
2-hydroxyethyl methacrylate	CAS-No.: 868-77-9 EC-No.: 212-782-2	≥ 15 – < 30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Hydroxypropyl Methacrylate	CAS-No.: 27813-02-1 EC-No.: 248-666-3	≥ 8 – < 15	Eye Irrit. 2, H319 Skin Sens. 1, H317
4-(1,1-dimethylethyl)cyclohexyl methacrylate	CAS-No.: 46729-07-1 EC-No.: 256-277-5	≥ 3 – < 8	Skin Sens. 1, H317
Aliphatic urethane acrylate resin	CAS-No.: Proprietary EC-No.: Proprietary	≥ 3 – < 8	Eye Irrit. 2, H319
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	CAS-No.: 75980-60-8 EC-No.: 278-355-8	≥ 0.3 – < 1	Skin Sens. 1B, H317 Repr. 1B, H360Fd Aquatic Chronic 2, H411
Neopentylglycol propoxylated diacrylate	CAS-No.: 84170-74-1 EC-No.: 617-546-6	≥ 0.3 – < 1	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
2-Propenoic Acid, 2-Methyl-, 2-Hydroxyethyl Ester, Reaction Products with Phosphorus Oxide	CAS-No.: 1187441-10-6 EC-No.: 810-703-1	≥ 0.3 – < 1	Eye Dam. 1, H318 Skin Sens. 1B, H317
Acrylic Acid substance with a Community workplace exposure limit	CAS-No.: 79-10-7 EC-No.: 201-177-9	≥ 0.1 – < 0.3	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 Aquatic Acute 1, H400 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
2-Hydroxyethyl acrylate	CAS-No.: 818-61-1 EC-No.: 212-454-9	≥ 0.01 – < 0.1	

Specific concentration limits:
Name

Product identifier

Specific concentration limits

2-Hydroxyethyl acrylate	CAS-No.: 818-61-1 EC-No.: 212-454-9	(0.2 ≤ C ≤ 100) Skin Sens. 1, H317
Acrylic Acid	CAS-No.: 79-10-7 EC-No.: 201-177-9	(1 ≤ C ≤ 100) STOT SE 3, H335

Section 4: First aid measures

4.1. Description of first aid measure

Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. If irritation persists, obtain medical attention.
Eye contact:	Bathe the eye with running water for 15 minutes. If irritation persists, consult a doctor
Ingestion:	Do not induce vomiting. Wash out mouth with water. If conscious, give half a litre of water to drink immediately. Consult a doctor if unwell.
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so.

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

Skin contact:	Skin sensitisation. Causes eye irritation
Eye contact:	There may be irritation and redness. The eyes may water profusely.
Ingestion:	May cause irritation to the digestive tract. Causes irritation of the mouth and throat. Ingestion may cause nausea and vomiting.
Inhalation:	None under normal conditions of use
Chronic symptoms:	Repeated or prolonged skin contact can result in sensitisation in susceptible individuals.
Delayed/immediate effects:	Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment:	Eye bathing equipment should be available on the premises.
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Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media:	Dry chemical powder. Alcohol resistant foam. Carbon dioxide (CO ₂).
Unsuitable extinguishing media:	Water jet or water based extinguishing media.

5.2. Special hazards arising from the substance or mixture

Exposure hazards:	In combustion emits toxic fumes of carbon dioxide/carbon monoxide and oxides of nitrogen.
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5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to Section 8 of SDS for personal protection details. Evacuate the area immediately. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water.

6.4. Reference to other sections

Reference to other sections: Refer to Section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Provide local exhaust or general room ventilation. Safety glasses, Gloves. Do not wear protective gloves made from PVC as these absorb (meth)acrylates. Avoid contact with skin, eyes, and clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well-ventilated area. Keep container tightly closed. Store away from ignition sources. Protect from light. Storage temperatures should not exceed 25°C.

Suitable packaging: Product should be kept in the original container.

7.3. Specific end use(s)

Specific end use(s): Adhesive

Section 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Acrylic Acid; Prop-2-enoic acid (79-10-7)

EU - Indicative Occupational Exposure Limit (IOEL)

IOEL TWA	29 mg/m ³
IOEL TWA [ppm]	10 ppm
IOEL STEL	59 mg/m ³ (Short-term exposure limit value in relation to a reference period of 1 minute.)
IOEL STEL [ppm]	20 ppm

United Kingdom - Occupational Exposure Limits

WEL TWA (OEL TWA) [1]	30 mg/m ³
WEL TWA (OEL TWA) [2]	10 ppm
WEL STEL (OEL STEL)	60 mg/m ³
WEL STEL (OEL STEL) [ppm]	20 ppm

8.2. Exposure controls

Engineering measures:	Ensure there is sufficient ventilation of the area.
Respiratory protection:	Self-contained breathing apparatus must be available in case of emergency.
Hand protection:	Nitrile gloves. Viton gloves.
Eye protection:	Safety glasses. Ensure eye bath is to hand.
Skin protection:	Protective clothing should be available.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Clear
Appearance	Clear liquid
Odour	Characteristic
Odour threshold	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	>100°C
Flammability	Not flammable
Explosive properties	Product is not explosive
Oxidising properties	Not oxidising
Explosive limits	Not available
Lower explosive limit (LEL)	Not available
Upper explosive limit (UEL)	Not available
Flash point	> 100°C
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	Not available
Viscosity, kinematic	Not available
Viscosity, dynamic	2750-3250cps
Solubility	Soluble in acetone.

Partition coefficient n-octanol/water (Log Kow)	Not available
Partition coefficient n-octanol/water (Log Pow)	Not available
Vapour pressure	Not available
Vapour pressure at 50 °C	Not available
Density	Not available
Relative density	1.09
Relative vapour density at 20 °C	Not available
Particle size	Not applicable
Particle size distribution	Not applicable
Particle shape	Not applicable
Particle aspect ratio	Not applicable
Particle agglomeration state	Not applicable
Particle specific surface area	Not applicable
Particle dustiness	Not applicable

9.2. Other information

9.2.1. Physical hazard classes No data available.

9.2.2. Other safety characteristics No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Stable under normal conditions of use

10.4. Conditions to avoid

Conditions to avoid: Protect from light

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents, light

10.6. Hazardous decomposition products

Haz. decomp. products: Under normal conditions of storage and use, hazardous decomposition products should not be produced. In combustion emits toxic fumes of carbon dioxide/carbon monoxide and oxides of nitrogen.

11. Toxicological information

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

Acute toxicity (oral): Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal): Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation): Not classified (Based on available data, the classification criteria are not met)

11.2. Information on other hazards

No data available

Section 12: Ecological information

12.1. Toxicity

Ecology - general	Not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment
Ecology - water	Slightly soluble .
Hazardous to the aquatic environment, short-term (acute)	Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	Not classified (Based on available data, the classification criteria are not met)

12.2. Persistence and degradability

Persistence and degradability: Biodegradable in soil

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulative potential.

12.4. Mobility in soil

Mobility: Adsorbs into the soil.

12.5. Results of PBT and vPvB assessment

No data available

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

Other adverse effects: No other effects known

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Dispose of as Special Waste in accordance with local and national legislation. Hardened product can be disposed of in land-fill sites by licensed contractors.

Waste code number: 08 04 09

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1 UN number or ID number:

UN Number:				
ADR	IMDG	IATA	ADN	RID
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

14.2 UN proper shipping name:

ADR	IMDG	IATA	ADN	RID
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

14.3 Transport hazard class:

Transport Hazard Class:				
ADR	IMDG	IATA	ADN	RID
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

14.4 Packing Group:

Packing Group:				
ADR	IMDG	IATA	ADN	RID
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

14.5 Environmental hazards:

ADR	IMDG	IATA	ADN	RID
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

14.6 Special precautions for users:

Overland transport
Classification code (ADR) Not regulated

Transport by sea	Not regulated
Air transport	Not regulated
Rail transport	Not regulated

Section 14.7: Maritime transport in bulk according to IMO instruments

Not applicable

Section 15: Regulatory information

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

15.1.1 EU Regulations

EU restriction list (REACH Annex XVII)

3(a)

Acrylic acid

Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F

EU restriction list (REACH Annex XVII)

3(b)

Adhesive ; 2-hydroxyethyl methacrylate ; 4-(1,1dimethylethyl)cyclohexyl methacrylate ; Hydroxypropyl Methacrylate ; Acrylic

Acid ; 2-Propenoic Acid,

2-Methyl-, 2-Hydroxyethyl Ester, Reaction Products with Phosphorus Oxide ; Neopentylglycol propoxylated diacrylate ; Aliphatic urethane acrylate resin ; 2-Hydroxyethyl acrylate

Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

3(c)

Acrylic Acid ;

Neopentylglycol propoxylated diacrylate ; 2-Hydroxyethyl acrylate

Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

15.1.2 National Regulations

No information available

15.2. Chemical Safety Assessment

Chemical safety assessment: No chemical safety assessment has been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 453/2010.

Indication of changes: Indicated by revision number.

Phrases used in S.2 and 3: Skin corrosion/irritation, Category 2 - H315
Serious eye damage/eye irritation, Category 2 - H319
Skin sensitisation, Category 1 - H317
Reproductive toxicity, Category 1B- H360Fd
P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing vapours.
P264 - Wash hands thoroughly after handling.
P280 - Wear eye protection, protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

Legal 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. Novachem Corporation Ltd. and/or its agents cannot accept any liability for the use of information contained in this data sheet or for the use, application or processing of the product described in this data sheet. Users should note the possibility of hazards occurring due to improper uses of the product.