

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Product name : 2000-HP
Product code : 2000-HP
Type of product : adhesives
Product group : Blend

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

Use of the substance/mixture : Adhesives, sealants

1.3. Details of the supplier of the safety data sheet

Cyanotec Limited
Bay 2, Building 62,
Third Avenue, Pensnett Trading Estate,
Kingswinford DY6 7XT
T +44 (0)1834 294 753
sales@cyanotec.com

1.4. Emergency telephone number

Emergency number : +44 (0)1834 294 753
Office hours 0900-1700hrs
(Monday-Thursday)

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Skin sensitisation, Category 1 H317
Specific target organ toxicity – Single exposure, Category 3, H335
Respiratory tract irritation
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May cause respiratory irritation. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction.

2000-HP

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Warning

Contains

: Triethyleneglycol Dimethacrylate; Hydroxypropyl Methacrylate; Acrylic Acid; Tert-butyl Hydroperoxide; Reaction Mass of 2,2'-[(4-Methylphenyl)Imino]Bisethanol and Ethanol 2-[[2-(2-Hydroxyethoxy)Ethyl](4-Methylphenyl)Amino]-

Hazard statements (CLP)

: H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.

Precautionary statements (CLP)

: P261 - Avoid breathing vapours.
P271 - Use only outdoors or in a well-ventilated area.
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.
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.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Hydroxypropyl Methacrylate (27813-02-1), Acrylic Acid (79-10-7)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Hydroxypropyl Methacrylate (27813-02-1), Acrylic Acid (79-10-7)

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Triethyleneglycol Dimethacrylate	CAS-No.: 109-16-0 EC-No.: 203-652-6 REACH-no: 01-2119969287-21	$\geq 30 - < 45$	Skin Sens. 1B, H317
Hydroxypropyl Methacrylate	CAS-No.: 27813-02-1 EC-No.: 248-666-3 REACH-no: 01-2119490226-37	$\geq 3 - < 8$	Eye Irrit. 2, H319 Skin Sens. 1, H317

2000-HP

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acrylic Acid substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 79-10-7 EC-No.: 201-177-9 EC Index-No.: 607-061-00-8 REACH-no: 01-2119452449-31	≥ 1 – < 3	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Skin Corr. 1A, H314 Aquatic Acute 1, H400
Tert-butyl Hydroperoxide	CAS-No.: 75-91-2 EC-No.: 200-915-7 EC Index-No.: 617-023-00-2 REACH-no: 01-2119446670-40	≥ 0.3 – < 1	Flam. Liq. 3, H226 Org. Perox. F, H242 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation:vapour), H330 Skin Corr. 1C, H314 Skin Sens. 1, H317 Muta. 2, H341 STOT SE 3, H335 Aquatic Chronic 2, H411
2'-Phenylacetohydrazide	CAS-No.: 114-83-0 EC-No.: 204-055-3 REACH-no: EXEMPT <1T	≥ 0.3 – < 1	Acute Tox. 3 (Oral), H301
Reaction Mass of 2,2'-[(4-Methylphenyl)Imino]Bisethanol and Ethanol 2-[[2-(2-Hydroxyethoxy)Ethyl](4-Methylphenyl)Amino]- (Monomer)	EC-No.: 911-490-9 REACH-no: 01-2119979579-10	≥ 0.3 – < 1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Acrylic Acid	CAS-No.: 79-10-7 EC-No.: 201-177-9 EC Index-No.: 607-061-00-8 REACH-no: 01-2119452449-31	(1 ≤ C ≤ 100) STOT SE 3; H335

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water (for at least 15 minutes). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. Drink plenty of water. Get medical advice/attention.
First-aid measures for first aider	: If this chemical contacts the skin, wash the contaminated skin with soap and water. First aid workers will be equipped with suitable personal protective equipment.

2000-HP

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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

Symptoms/effects	: Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. Skin sensitisation.
Symptoms/effects after inhalation	: May cause shortness of breath, tightness of the chest, a sore throat and cough. May cause an allergic skin reaction.
Symptoms/effects after skin contact	: Causes skin irritation. Red skin. Itching. Blisters. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye irritation. Redness. Itching. Causes eyes to water.
Symptoms/effects after ingestion	: Causes irritation of the mouth and throat. Ingestion may cause nausea, vomiting and diarrhea.
Chronic symptoms	: Repeated or prolonged skin contact can result in sensitisation in susceptible individuals.

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

Treat symptomatically. An eyewash station should be available on the premises.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Dry powder. Foam. Carbon dioxide. Cool closed containers exposed to fire with water spray.
Unsuitable extinguishing media	: high volume water jet or water based extinguishing media.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Hazardous polymerization may occur if exposed to fire conditions.
Explosion hazard	: Prolonged exposure to fire may cause containers to rupture/explode.
Reactivity in case of fire	: Polymerises on exposure to temperature rise: pressure build-up may cause closed container to burst. Cool closed containers exposed to fire with water spray.
Hazardous decomposition products in case of fire	: Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide) nitrogen oxides (NO, NO ₂ etc.). irritating vapours may be released.

5.3. Advice for firefighters

Precautionary measures fire	: Exercise caution when fighting any chemical fire. Do not approach fire except upwind and only with proper skin and respiratory protection (supplied air only).
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Do not enter fire area without proper protective equipment, including respiratory protection. Avoid contact with skin and eyes.
Protection during firefighting	: Self-contained breathing apparatus. Complete protective clothing.
Other information	: Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Clean up any spills as soon as possible, using an absorbent material to collect it. Scoop absorbed substance into closing containers. Provide emergency eye wash equipment with clean water at spill site. See Section 13 for disposal information.
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For non-emergency personnel

Emergency procedures	: Ventilate spillage area. Avoid breathing fume, vapours. Avoid contact with skin and eyes.
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For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. Protective gloves. (ISO 374-2). Safety glasses. (ISO 16321-1). For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Evacuate unnecessary personnel. Avoid breathing vapours. Ventilate area. Avoid contact with eyes, skin and clothing. Wear recommended personal protective equipment. Safety glasses. Protective gloves. Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Cover spill with non combustible material, e.g.: sand/earth.

2000-HP

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

6.2. Environmental precautions

Do not empty into drains. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	: For a large spillage, contain the spillage by bunding.
Methods for cleaning up	: Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite. Place spent adsorbent in sealed packages and contact specialist waste disposal contractor.
Other information	: Contaminated absorbent material may pose the same hazard as the spilt product. Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Skin contact should be avoided to prevent possible allergic reactions.
Precautions for safe handling	: Avoid breathing fume, vapours. Avoid contact with skin and eyes. Provide local exhaust or general room ventilation. Wear personal protective equipment. Protective gloves made of rubber. Neoprene/viton®. (ISO 374-2). Do not wear protective gloves made from PVC as these absorb (meth)acrylates. Safety glasses. (ISO 16321-1).
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Store in tightly closed, leak-proof containers.
Storage conditions	: Keep away from ignition sources. Keep cool. Protect from sunlight. Store in a well-ventilated place. Keep container tightly closed. IMPORTANT - if stored in bulk, product must be kept in contact with air to aid stabilisation.
Incompatible products	: Strong acids. Strong oxidizing agents. Alkali metals and their alloys. Copper and its alloys. Aluminium. free radical initiators.
Incompatible materials	: Direct sunlight. Heat sources. High temperature. hot surfaces.
Heat and ignition sources	: Hazardous polymerization may occur if exposed to high temperature.
Storage area	: Store away from direct sunlight or other heat sources.
Packaging materials	: Always store product in a container of the same material as original container.

7.3. Specific end use(s)

adhesives.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Acrylic Acid (79-10-7)	
United Kingdom - Occupational Exposure Limits	
Local name	Acrylic acid (Prop-2-enoic acid) Asid akrilik
WEL TWA (OEL TWA)	30 mg/m ³
	10 ppm
WEL STEL (OEL STEL)	60 mg/m ³

2000-HP

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Acrylic Acid (79-10-7)	
	20 ppm (STEL in relation to a 1-minute reference period) (STEL in relation to a 1-minute reference period)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Avoid contact with skin and eyes. Remove contaminated clothing. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

Personal protection equipment

Personal protective equipment:

Protective gloves. (ISO 374-2). Safety glasses. (ISO 16321-1).

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Safety glasses. (ISO 16321-1)

Eye protection			
Type	Field of application	Characteristics	Standard
Safety glasses	Droplet	With side shields	ISO 16321-1:2021

Skin protection

Skin and body protection:

Normal overalls

Hand protection:

Protective gloves. (ISO 374-2). Do not wear protective gloves made from PVC as these absorb (meth)acrylates. Replace gloves immediately whenever signs of wear or perforation appear

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR), Fluoroelastomer (FKM), Viton® II, Neoprene rubber (HNBR)	6 (> 480 minutes)	>0.3		EN 374-2

Respiratory protection

Respiratory protection:

No respiratory protection needed under normal use conditions. In case of insufficient ventilation, wear suitable respiratory equipment. Reusable half mask. Recommended: Filter type A (brown)

Respiratory protection			
Device	Filter type	Condition	Standard
Reusable half mask	Type A - High-boiling (>65 °C) organic compounds, ABEK	If conc. in air > exposure limit	EN 140, EN 405, EN 14387

2000-HP

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Pale greenish brown.
Appearance	: Viscous.
Odour	: Characteristic pungent odour.
Odour threshold	: Not available
Melting point	: Not established
Freezing point	: -88 °C
Boiling point	: Not established
Flammability	: Not flammable
Explosive properties	: Product is not explosive.
Oxidising properties	: Not oxidising. by EC criteria.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 100 °C
Auto-ignition temperature	: Not established
Decomposition temperature	: Not available
pH	: substance/mixture is non-soluble (in water)
Viscosity, kinematic	: ≈ 530 mm ² /s (calculated value)
Viscosity, dynamic	: 556 cP Anton Paar cone and plate, controlled stress rheometer
Solubility	: Very slightly soluble in: Water. Soluble in acetone. Water: < 3 g/l
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 0.1 mm Hg @20°C
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: ≈ 1.05
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

Other safety characteristics

Other properties : anaerobic

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. Polymerises on exposure to temperature rise: pressure build-up may cause closed container to burst.

10.2. Chemical stability

Stable under normal conditions. Polymerisation can occur. in the absence of oxygen. Anaerobic product: Presence of air is important to keep formulatory inhibitors active to maintain product stability.

10.3. Possibility of hazardous reactions

Exothermic polymerisation can occur if exposed to elevated temperatures for long periods of time.

10.4. Conditions to avoid

Direct sunlight. Heat sources. High temperature. hot surfaces.

2000-HP

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

10.5. Incompatible materials

Strong acids. Strong oxidizing agents. Alkali metals and their alloys. Copper and its alloys. Aluminium. free radical initiators.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, nitrogen oxides (NOx).

SECTION 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)

2000-HP	
ATE CLP (oral)	23684 mg/kg
ATE CLP (dermal)	35553 mg/kg
ATE CLP (vapours)	159 mg/l
Triethyleneglycol Dimethacrylate (109-16-0)	
LD50 oral rat	10837 mg/kg
LD50 dermal	> 2000 mg/kg
Hydroxypropyl Methacrylate (27813-02-1)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 oral	7964 mg/kg
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Animal sex: male
LD50 dermal	> 5000 mg/kg
Acrylic Acid (79-10-7)	
LD50 oral rat	1000 – 2000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 5.1 mg/l/4h Animal: rat, OECD Guideline 403: Acute toxicity (inhalation)
Tert-butyl Hydroperoxide (75-91-2)	
LD50 oral rat	≈ 560 mg/kg bodyweight Animal: rat, Male/Female: Toxicity, Oral
LD50 dermal rabbit	628 mg/kg bodyweight (Rat, Male / female, Experimental value, Dermal) OECD 402 method
LC50 Inhalation - Rat	1845 mg/m³ Animal: rat, OECD Guideline 403: Acute toxicity (inhalation)
LC50 Inhalation - Rat (Vapours)	1.85 mg/l/4h
2'-Phenylacetohydrazide (114-83-0)	
LD50 oral	270 mg/kg bodyweight mouse
Reaction Mass of 2,2'-[(4-Methylphenyl)Imino]Bisethanol and Ethanol 2-[[2-(2-Hydroxyethoxy)Ethyl](4-Methylphenyl)Amino]-	
LD50 oral rat	619 mg/kg Equivalent to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)

2000-HP

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Reaction Mass of 2,2'-[(4-Methylphenyl)Imino]Bisethanol and Ethanol 2-[[2-(2-Hydroxyethoxy)Ethyl](4-Methylphenyl)Amino]-

LD50 dermal rabbit > 2000 mg/kg (OECD 402 method)

LD50 dermal > 2000 mg/kg

Skin corrosion/irritation : Causes skin irritation.
pH: substance/mixture is non-soluble (in water)

Acrylic Acid (79-10-7)

pH 2

Tert-butyl Hydroperoxide (75-91-2)

pH 4.3 @20°C

Reaction Mass of 2,2'-[(4-Methylphenyl)Imino]Bisethanol and Ethanol 2-[[2-(2-Hydroxyethoxy)Ethyl](4-Methylphenyl)Amino]-

Additional information (OECD 439 method)

Serious eye damage/irritation : Causes serious eye irritation.
pH: substance/mixture is non-soluble (in water)

Acrylic Acid (79-10-7)

pH 2

Tert-butyl Hydroperoxide (75-91-2)

pH 4.3 @20°C

Respiratory or skin sensitisation : May cause an allergic skin reaction.
Additional information : May cause sensitisation of susceptible persons by skin contact
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Acrylic Acid (79-10-7)

IARC group 3 - Not classifiable

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

Hydroxypropyl Methacrylate (27813-02-1)

NOAEL (animal/male, F0/P) 300 mg/kg bodyweight

NOAEL (animal/female, F0/P) 300 mg/kg bodyweight

NOAEL (animal/male, F1) ≥ 1000 mg/kg bodyweight

NOAEL (animal/female, F1) ≥ 1000 mg/kg bodyweight

STOT-single exposure : May cause respiratory irritation.

Tert-butyl Hydroperoxide (75-91-2)

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Triethyleneglycol Dimethacrylate (109-16-0)

NOAEL (subacute, oral, animal/male, 28 days) 1000 mg/kg bodyweight

NOAEL (oral, rat, 90 days) 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Hydroxypropyl Methacrylate (27813-02-1)

NOAEL (oral, rat, 90 days) 300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

2000-HP

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Acrylic Acid (79-10-7)	
NOAEL (oral, rat, 90 days)	40 – 375 mg/kg bodyweight/day
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
2000-HP	
Viscosity, kinematic	≈ 530 mm²/s (calculated value)
Triethyleneglycol Dimethacrylate (109-16-0)	
Viscosity, kinematic	9.15 mm²/s (OECD 114 method)
Hydroxypropyl Methacrylate (27813-02-1)	
Viscosity, kinematic	8.9 mm²/s @20°C
Acrylic Acid (79-10-7)	
Viscosity, kinematic	1.094 mm²/s
Reaction Mass of 2,2'-[(4-Methylphenyl)Imino]Bisethanol and Ethanol 2-[[2-(2-Hydroxyethoxy)Ethyl](4-Methylphenyl)Amino]-	
Viscosity, kinematic	2320 mm²/s @25°C

11.2. Information on other hazards

Other information

Potential adverse human health effects and symptoms : Causes skin and eye irritation, May cause an allergic skin reaction, May cause respiratory irritation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Ecology - water : Very 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)

2000-HP	
Additional information	Insoluble in water
Triethyleneglycol Dimethacrylate (109-16-0)	
LC50 - Fish [1]	16.4 mg/l Test organisms (species): Zebrafish (Danio Rerio)
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	72.8 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	100 mg/l Species: Daphnia magna Duration: '21 d'
NOEC (chronic)	32 mg/l Species: Daphnia magna Duration: '21 d'
NOEC chronic fish	9.5 mg/l
NOEC chronic crustacea	32 mg/l
Hydroxypropyl Methacrylate (27813-02-1)	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

2000-HP

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Hydroxypropyl Methacrylate (27813-02-1)	
EC50 - Crustacea [1]	> 130 mg/l Species: Daphnia magna (OECD 202 method)
EC50 72h - Algae [1]	> 97.2 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
ErC50 algae	> 97.2 mg/l OECD 201: 72 h Pseudokirchneriella subcapitata (Green Algae)
NOEC (chronic)	45.2 mg/l Species: Daphnia magna Duration: '21 d'
NOEC chronic crustacea	45.2 mg/l
NOEC chronic algae	97.2 mg/l
Acrylic Acid (79-10-7)	
LC50 - Fish [1]	27 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	95 mg/l Species: Daphnia magna
ErC50 algae	0.13 mg/l EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Weight of evidence, Nominal concentration
LOEC (chronic)	8.1 mg/l Species: Daphnia magna Duration: '21 d'
Tert-butyl Hydroperoxide (75-91-2)	
LC50 - Fish [1]	42.3 mg/l Test organisms (species): Fathead minnow (Pimephales promelas)
EC50 - Crustacea [1]	20 mg/l Species: Daphnia magna
EC50 72h - Algae [1]	2.1 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
Reaction Mass of 2,2'-[(4-Methylphenyl)Imino]Bisethanol and Ethanol 2-[[2-(2-Hydroxyethoxy)Ethyl](4-Methylphenyl)Amino]-	
LC50 - Fish [1]	> 100 mg/l (OECD 203 method)
EC50 - Crustacea [1]	48 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
EC50 - Other aquatic organisms [1]	48 mg/l
EC50 96h - Algae [1]	> 100 mg/l

12.2. Persistence and degradability

2000-HP	
Persistence and degradability	Product has only a limited biodegradability in soil and water.
Triethyleneglycol Dimethacrylate (109-16-0)	
Persistence and degradability	Readily biodegradable.
Biodegradation	≈ 75 %
Hydroxypropyl Methacrylate (27813-02-1)	
Persistence and degradability	> 80 % biodegradation .
Biodegradation	> 80 %
Acrylic Acid (79-10-7)	
Persistence and degradability	Readily biodegradable in water, easily degradable in the soil.
Tert-butyl Hydroperoxide (75-91-2)	
Persistence and degradability	Rapidly degradable

2000-HP

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

2'-Phenylacetohydrazide (114-83-0)	
Persistence and degradability	Biodegradability in water: no data available.
Reaction Mass of 2,2'-[(4-Methylphenyl)Imino]Bisethanol and Ethanol 2-[[2-(2-Hydroxyethoxy)Ethyl](4-Methylphenyl)Amino]-	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

2000-HP	
Bioaccumulative potential	Low bioaccumulation potential.
Triethyleneglycol Dimethacrylate (109-16-0)	
Partition coefficient n-octanol/water (Log Pow)	2.3 Test method EU A.8
Bioaccumulative potential	No bioaccumulation potential.
Hydroxypropyl Methacrylate (27813-02-1)	
Partition coefficient n-octanol/water (Log Pow)	0.97 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 23 °C)
Bioaccumulative potential	Low bioaccumulation potential.
Acrylic Acid (79-10-7)	
BCF - Fish [1]	3.162 (estimated value)
Partition coefficient n-octanol/water (Log Pow)	0.46 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 23 °C)
Bioaccumulative potential	Low bioaccumulation potential. BCF. <500.
Tert-butyl Hydroperoxide (75-91-2)	
Partition coefficient n-octanol/water (Log Pow)	0.7
2'-Phenylacetohydrazide (114-83-0)	
Bioaccumulative potential	Not established. Lack of data.
Reaction Mass of 2,2'-[(4-Methylphenyl)Imino]Bisethanol and Ethanol 2-[[2-(2-Hydroxyethoxy)Ethyl](4-Methylphenyl)Amino]-	
Partition coefficient n-octanol/water (Log Pow)	2.17

12.4. Mobility in soil

2000-HP	
Ecology - soil	No specific data.
Additional information	The liquid is heavier than water. Not volatile. Slightly soluble
Triethyleneglycol Dimethacrylate (109-16-0)	
Ecology - soil	Product adsorbs onto the soil. The liquid is heavier than water. Not volatile.
Hydroxypropyl Methacrylate (27813-02-1)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.9 (calculated value)
Acrylic Acid (79-10-7)	
Surface tension	69.9 mN/m (1 g/L) @20°C

2000-HP

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Acrylic Acid (79-10-7)	
Organic Carbon Normalized Adsorption Coefficient (Log K _{oc})	0.78 – 2.14
Ecology - soil	Low potential for absorption in soil.
2'-Phenylacetohydrazide (114-83-0)	
Ecology - soil	No specific data.
Reaction Mass of 2,2'-[(4-Methylphenyl)Imino]Bisethanol and Ethanol 2-[[2-(2-Hydroxyethoxy)Ethyl](4-Methylphenyl)Amino]-	
Organic Carbon Normalized Adsorption Coefficient (Log K _{oc})	2.17 (OECD 121 method)

12.5. Results of PBT and vPvB assessment

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Hydroxypropyl Methacrylate (27813-02-1), Acrylic Acid (79-10-7)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Hydroxypropyl Methacrylate (27813-02-1), Acrylic Acid (79-10-7)

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation	: Use suitable disposal containers. Disposal must be done according to official regulations.
Waste treatment methods	: Waste product: Dispose as hazardous waste. The product may be polymerised with LA64 activator (care should be taken when polymerizing a large amount of product due to exothermic reaction). Solidified product: May be disposed of with non-hazardous industrial waste.
Product/Packaging disposal recommendations	: Do not dispose of the packaging without first carrying out the necessary cleaning. Clean using water and a detergent. Packaging may be reused or recycled after cleaning. Recycling is preferred to disposal or incineration.
Additional information	: Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.
Ecological waste information	: Do not empty into drains.
HP Code	: HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration. HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye. HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

Not regulated for transport

2000-HP

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Not regulated
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated
Proper Shipping Name (ADN)	: Not regulated
Proper Shipping Name (RID)	: Not regulated

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: Not regulated
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IMDG

Transport hazard class(es) (IMDG)	: Not regulated
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IATA

Transport hazard class(es) (IATA)	: Not regulated
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ADN

Transport hazard class(es) (ADN)	: Not regulated
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RID

Transport hazard class(es) (RID)	: Not regulated
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14.4. Packing group

Packing group (ADR)	: Not regulated
Packing group (IMDG)	: Not regulated
Packing group (IATA)	: Not regulated
Packing group (ADN)	: Not regulated
Packing group (RID)	: Not regulated

14.5. Environmental hazards

Other information	: No supplementary information available
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14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

2000-HP

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

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

SECTION 16: Other information

Indication of changes:

SDS changed sections. Identification of the substance/mixture and of the company/undertaking. Extra phrases. Composition/information on ingredients. First aid measures. Firefighting measures. Accidental release measures. Handling and storage. Exposure controls/personal protection. Physical and chemical properties. Stability and reactivity. Toxicological information. Ecological information. Disposal considerations. Regulatory information.

Indication of changes		
Section	Changed item	Comments
	Supersedes version of	Modified
	Revision date	Modified
	Version	Modified
1	UFI on SDS 1.1	Removed
2.1	Adverse physicochemical, human health and environmental effects	Modified
2.2	Extra phrases	Removed
3	Composition/information on ingredients	Modified
4.1	First-aid measures for first aider	Added
4.1	First-aid measures after eye contact	Modified

2000-HP

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Indication of changes		
Section	Changed item	Comments
4.2	Symptoms/effects after skin contact	Modified
4.2	Symptoms/effects after inhalation	Modified
4.2	Symptoms/effects	Modified
5.2	Reactivity in case of fire	Modified
5.3	Other information	Added
5.3	Precautionary measures fire	Modified
6.1	Protective equipment	Modified
6.1	Emergency procedures	Modified
6.1	General measures	Modified
6.2	Environmental precautions	Modified
6.3	Methods for cleaning up	Modified
7.1	Additional hazards when processed	Modified
7.1	Precautions for safe handling	Modified
7.2	Incompatible materials	Modified
8.2	Hand protection	Modified
8.2	Personal protective equipment	Modified
8.2	Respiratory protection	Modified
9	Solubility	Modified
10.4	Conditions to avoid	Modified
11.1	Additional information	Added
11.1	ATE CLP (vapours)	Added
11.1	ATE CLP (oral)	Added
11.1	ATE CLP (dermal)	Added
11.1	Potential adverse human health effects and symptoms	Modified
12.1	Ecology - water	Added
13.1	Additional information	Added
15.1	REACH Annex XVII	Modified
16	Abbreviations and acronyms	Modified

Abbreviations and acronyms:	
CAS-No.	Chemical Abstract Service number
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level

2000-HP

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:	
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
ED	Endocrine disruptor
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
IOELV	Indicative Occupational Exposure Limit Value
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
VOC	Volatile Organic Compounds
WGK	Water Hazard Class
vPvB	Very Persistent and Very Bioaccumulative
CSA	Chemical safety assessment
EINECS	European Inventory of Existing Commercial Chemical Substances
EWC	European waste catalogue
ICAO	International Civil Aviation Organization
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
PPE	Personal protection equipment
TLM	Median Tolerance Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average
UFI	Unique Formula Identifier

Data sources

: Supplier's safety documents. ECHA (European Chemicals Agency). UNECE, <http://www.unece.org/>.

2000-HP

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:	
Acute Tox. 2 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Muta. 2	Germ cell mutagenicity, Category 2
Org. Perox. F	Organic Peroxides, Type F
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful 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.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

2000-HP

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Safety Data Sheet applicable for regions : GB

Safety Data Sheet (SDS), EU

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