

Printing date 10.10.2023

Version number 2 (replaces version 1)

Revision: 10.10.2023

SECTION 1: Identification of the substance/mixture and of the company/ undertaking	
· 1.1 Product identifier	
· Trade name: <u>Unocol 760</u>	
 Article number: 103760 1.2 Relevant identified uses of the substance or mixture and uses advised against Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites Product category PC1 Adhesives, sealants Application of the substance / the mixture Adhesives 	
• 1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier: APM Technica AG Max-Schmidheiny-Str.201 CH-9435 HEERBRUGG SCHWEIZ	
 Further information obtainable from: Tel. +41 71 788 31 00 (At office times only) E-Mail: msds@apm-technica.com 1.4 Emergency telephone number: Tox Info Suisse Freiestrasse 16 CH-8032 Zürich Swiss Emergency phone number: 145 (24h). From outside of Switzerland: +41 44 251 51 51 	
SECTION 2: Hazards identification	
• 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008	
GHS05 corrosion	
Eye Dam. 1 H318 Causes serious eye damage.	
GHS09 environment	
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.	-
GHS07	
Acute Tox. 4 H302 Harmful if swallowed.	
Skin Sens. 1 H317 May cause an allergic skin reaction.	_
 • 2.2 Label elements • Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. (Contd. on page 	2) - IE

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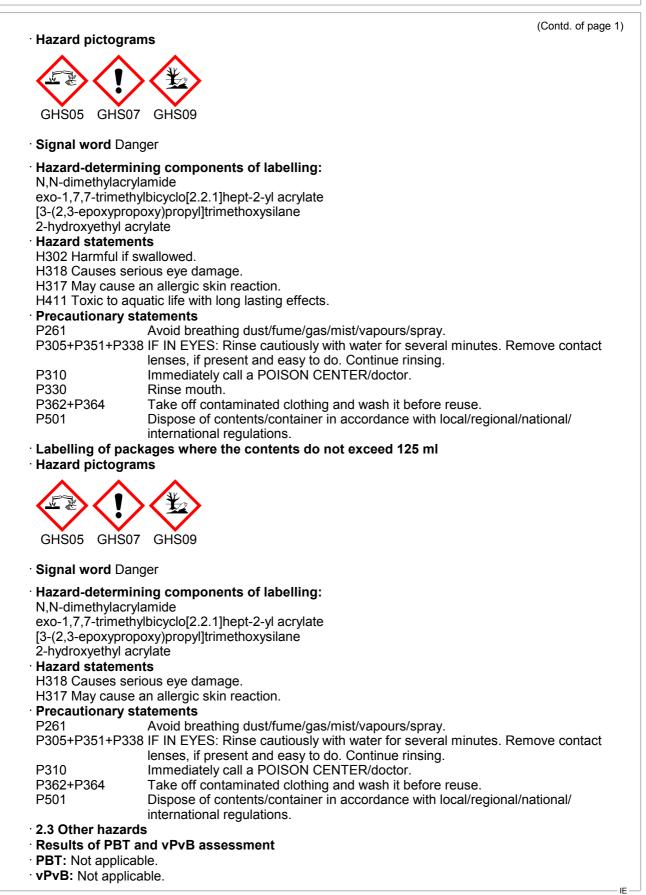
Safety data sheet according to 1907/2006/EC, Article 31

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•	e of substances listed below with nonhazardous additions.	
Dangerous compor		
CAS: 5888-33-5 EINECS: 227-561-6	exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate ♦ Skin Sens. 1A, H317	>25–≤50%
CAS: 2680-03-7 EINECS: 220-237-5	N,N-dimethylacrylamide Acute Tox. 3, H301; Acute Tox. 3, H311; H318 H318	≥3–≤25%
CAS: 2530-83-8 EINECS: 219-784-2	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane ♦ Eye Dam. 1, H318; Aquatic Chronic 3, H412	≥2.5–<3%
CAS: 24650-42-8 EINECS: 246-386-6	2,2-dimethoxy-1,2-diphenylethan-1-one Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥2.5–≤10%
CAS: 105-74-8 EINECS: 203-326-3	dilauroyl peroxide The org. Perox. D, H242	≤2.5%
CAS: 108-88-3 EINECS: 203-625-9	toluene Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	≤2.5%
CAS: 508-32-7	1,7,7-trimethyltricyclo[2.2.1.02,6]heptane Aquatic Acute 1, H400; Aquatic Chronic 1, H410;	≥0.25–<2.5%
CAS: 75980-60-8 EINECS: 278-355-8	diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	≥0–≤2.5%
CAS: 79-10-7 EINECS: 201-177-9	acrylic acid ♦ Flam. Liq. 3, H226; ♦ Skin Corr. 1A, H314; ♦ Aquatic Acute 1, H400; ↑ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332 Specific concentration limit: STOT SE 3; H335: C ≥ 1 %	≥0–<0.25%
CAS: 79-92-5 EINECS: 201-234-8	camphene ♦ Flam. Sol. 2, H228; ♦ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ♦ Eye Irrit. 2, H319	≥0.025–<0.25%
CAS: 818-61-1 EINECS: 212-454-9	2-hydroxyethyl acrylate Acute Tox. 3, H311; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.2 %	≥0.1–<0.2%

75980-60-8 diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

• Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- \cdot 4.1 Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

• After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

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- · After swallowing: Call for a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture
- No further relevant information available.
- 5.3 Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent.

Dispose contaminated material as waste according to section 13.

- Ensure adequate ventilation.
- **6.4 Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Keep away from heat and direct sunlight. Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

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	ontrol parameters
	dients with limit values that require monitoring at the workplace:
	38-3 toluene
OEL	Short-term value: 384 mg/m ³ , 100 ppm
	Long-term value: 192 mg/m ³ , 50 ppm Sk, IOELV
79_1(0-7 acrylic acid
	Short-term value: 59* mg/m³, 20* ppm
OLL	Long-term value: 29 mg/m ³ , 10 ppm
	IOELV, *1-minute reference period
· Addi	tional information: The lists valid during the making were used as basis.
	xposure controls
	opriate engineering controls No further data; see section 7.
	idual protection measures, such as personal protective equipment
	eral protective and hygienic measures:
	away from foodstuffs, beverages and feed.
	ediately remove all soiled and contaminated clothing
	hands before breaks and at the end of work.
	I contact with the eyes.
	I contact with the eyes and skin.
	iratory protection: ecessary if room is well-ventilated.
	se of brief exposure or low pollution use respiratory filter device. In case of intensive or longer
	sure use self-contained respiratory protective device.
	I protection
ſ	
1117	Protective gloves
Tho	glove material has to be impermeable and resistant to the product/ the substance/ the
	aration.
	o missing tests no recommendation to the glove material can be given for the product/ the
	aration/ the chemical mixture.
Selec	tion of the glove material on consideration of the penetration times, rates of diffusion and the
	adation
	rial of gloves
	selection of the suitable gloves does not only depend on the material, but also on further mark
	ality and varies from manufacturer to manufacturer. As the product is a preparation of several ances, the resistance of the glove material can not be calculated in advance and has therefor
	checked prior to the application.
	tration time of glove material
	exact break through time has to be found out by the manufacturer of the protective gloves and
has t	b be observed.
· Eye/i	ace protection
	Tightly sealed goggles

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9.1 Information on basic physical and chen	nical properties
General Information	· ·
Physical state	Fluid
Colour:	Clear
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and	
boiling range	>93 °C
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	77 °C
Decomposition temperature:	Not determined.
pH	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	Not determined.
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log	
value)	Not determined.
Vapour pressure at 20 °C:	6.7 hPa
Density and/or relative density	0.7 III a
Density at 20 °C:	$1.07 a/cm^3$
Relative density	1.07 g/cm ³ Not determined.
Vapour density	Not determined.
vapour uensity	
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of hea	lth
and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	· ·
Organic solvents:	1.0 %
VOC (EC)	1.00 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard	
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void

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[·] Substances and mixtures, which emit		
flammable gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Harmful if swallowed.

· LD/LC50 values relevant for classification:

ATE (Acu	te Toxicity	y Estimates)
Oral	LD50	794–1,112 mg/kg (rat)
Dermal	LD50	2,382–3,335 mg/kg
108-88-3	toluene	
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mouse)
79-10-7 a	crylic acid	
Oral	LD50	250 mg/kg (rat)
Dermal	LD50	280 mg/kg (rabbit)
79-92-5 c	amphene	·
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	2,500 mg/kg (rab)
Serious e Respirato Germ cel Carcinog Reproduc	ye damag ory or skin I mutagen enicity Ba ctive toxic	ation Based on available data, the classification criteria are not met. e/irritation Causes serious eye damage. sensitisation May cause an allergic skin reaction. icity Based on available data, the classification criteria are not met. sed on available data, the classification criteria are not met. ity Based on available data, the classification criteria are not met. ity Based on available data, the classification criteria are not met. ity Based on available data, the classification criteria are not met.

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· 11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity: No further relevant information available.

- **12.2 Persistence and degradability** No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · **vPvB:** Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
HP4	Irritant - skin irritation and eye damage
HP6	Acute Toxicity
HP13	Sensitising
HP14	Ecotoxic

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number
 ADR, IMDG, IATA

UN3082

· 14.2 UN proper shipping name

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ADR	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (exo-1,7,7- trimethylbicyclo[2.2.1]hept-2-yl acrylate, ACRYLIC ACID, STABILIZED)
·IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (exo-1,7,7- trimethylbicyclo[2.2.1]hept-2-yl acrylate, ACRYLIC ACID, STABILIZED), MARINE POLLUTANT
·IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (exo-1,7,7- trimethylbicyclo[2.2.1]hept-2-yl acrylate, ACRYLIC ACID, STABILIZED)
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class	9 Miscellaneous dangerous substances and articles.
	9
· 14.4 Packing group · ADR, IMDG, IATA	111
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: 2-hydroxyethyl acrylate
Marine pollutant:	Symbol (fish and tree)
 Special marking (ADR): Special marking (IATA): 	Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
· Hazard identification number (Kemler code):	
· EMS Number: · Segregation groups	F-A,S-F (SGG1) Acids
· Stowage Category	A
 14.7 Maritime transport in bulk according to IMO instruments 	Not applicable.
· Transport/Additional information:	
· ADR	
 Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E1
Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000
· Transport category	ml 3
· Tunnel restriction code	(-)
·IMDG	
 Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E1
Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EXO-1,7,7-
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TRIMETHYLBICYCLO[2.2.1]HEPT-2-YL ACRYLATE, ACRYLIC ACID, STABILIZED), 9, III

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- Seveso category E2 Hazardous to the Aquatic Environment
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements $500\ t$
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 48
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
- None of the ingredients is listed.
- · REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
- None of the ingredients is listed.
- Annex II REPORTABLE EXPLOSIVES PRECURSORS
- None of the ingredients is listed.
- · Regulation (EC) No 273/2004 on drug precursors
- 108-88-3 toluene
- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
- 108-88-3 toluene
- · National regulations:
- · Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57
- 75980-60-8 diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

Relevant phrases

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H228 Flammable solid.
- H242 Heating may cause a fire.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H311 Toxic in contact with skin.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.

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H315 Causes skin irritation.H317 May cause an allergic skin reaction.H318 Causes serious eye damage.	
H319 Causes serious eye irritation. H332 Harmful if inhaled.	
 H336 May cause drowsiness or dizziness. H361d Suspected of damaging the unborn chill H361f Suspected of damaging fertility. 	d.
H373 May cause damage to organs through p	prolonged or repeated exposure.
H400 Very toxic to aquatic life.H410 Very toxic to aquatic life with long lastingH412 Harmful to aquatic life with long lasting	
$^{\cdot}$ Classification according to Regulation (EC)	No 1272/2008
Acute toxicity - oral Serious eye damage/irritation Skin sensitisation Hazardous to the aquatic environment - long- term (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
· Department issuing SDS: Technology	
Contact: msds@apm-technica.com	
 Date of previous version: 10.10.2023 Version number of previous version: 1 	
•	
Abbreviations and acronyms:	ndises dangereuses par route (European Agreement Concerning
• Abbreviations and acronyms: ADR: Accord relatif au transport international des marchar the International Carriage of Dangerous Goods by Road)	ndises dangereuses par route (European Agreement Concerning
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 Abbreviations and acronyms: ADR: Accord relatif au transport international des marchar the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and L EINECS: European Inventory of Existing Commercial Che ELINCS: European Inventory of Existing Commercial Che ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the America VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3 	abelling of Chemicals mical Substances
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