WINKEL PRO 6W20 HIGH STRENGTH RETAINING COMPOUND

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

1.1 Product identifier

Trade name:

WINKEL PRO 6W20 HIGH STRENGTH RETAINING COMPOUND

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

General use: Anaerobic sealants and adhesives

1.3 Details of the supplier of the safety data sheet

Company name: WINKEL GmbH
Street/POB-No.: Lisztstraße 1
Postal Code, city: 53881 Euskirchen - Germany
WWW: www.winkelgroup.de
E-mail: info@winkelgroup.de
Telephone: ++49 2251 77 69 400-401
Telefax: ++49 2251 77 69 402

Department responsible for information:

info@winkelgroup.de

1.4 Emergency telephone number

GIZ-Nord, Göttingen, Germany, Telephone: +49 551-19240
111, 112, 114

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Skin Irrit. 2; H315 Causes skin irritation.
Eye Irrit. 2; H319 Causes serious eye irritation.
Skin Sens. 1; H317 May cause an allergic skin reaction.
STOT SE 3; H335 May cause respiratory irritation.

2.2 Label elements

Labelling (CLP)

Signal word: **Warning**

Hazard statements:

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

Precautionary Statements:

P102	Keep out of reach of children.
P261	Avoid breathing vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water/soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P405	Store locked up.
P501	Dispose of contents/container to hazardous or special waste collection point.

Special labelling

Text for labelling: Contains: 2-Hydroxyethyl methacrylate; Acrylic acid and Cumene hydroperoxide

2.3 Other hazards

People who suffer from skins problems, asthma, allergies, chronic or recurring respiratory illnesses must not be deployed in processes, which use this substance.
Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment:
This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Methacrylate-based adhesive.

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 212-782-2 CAS 868-77-9	2-Hydroxyethyl methacrylate	30 - 35 %	Skin Irrit. 2; H315. Eye Irrit. 2; H319. Skin Sens. 1; H317.
EC No. 201-177-9 CAS 79-10-7	Acrylic acid	< 3 %	Flam. Liq. 3; H226. Acute Tox. 4; H302. Acute Tox. 4; H312. Acute Tox. 4; H332. Skin Corr. 1A; H314. Aquatic Acute 1; H400.
EC No. 201-254-7 CAS 80-15-9	Cumene hydroperoxide	< 2.5 %	Org. Perox. EF; H242. Acute Tox. 4; H302. Acute Tox. 4; H312. Acute Tox. 3; H331. Skin Corr. 1B; H314. STOT RE 2; H373. Aquatic Chronic 2; H411.
EC No. 210-199-8 CAS 609-72-3	N,N-Dimethyl-o-toluidine	< 1 %	Acute Tox. 3; H301. Acute Tox. 3; H311. Acute Tox. 3; H331. STOT RE 2; H373. Aquatic Chronic 3; H412.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Take off immediately all contaminated clothing and wash it before reuse.

In case of inhalation: Move victim to fresh air.
Seek medical aid in case of troubles.

Following skin contact: After contact with skin, wash immediately with soap and plenty of water.
In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently seek the immediate attention of an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.
Do not induce vomiting. Consult physician.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray jet, Carbon dioxide, extinguishing powder, foam

Extinguishing media which must not be used for safety reasons:
full water jet

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Smoke, nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: Hazchem-Code: -

Cool endangered containers with water jetspray. Do not allow fire water to penetrate into surface or ground water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid contact with skin, eyes, and clothing. Avoid breathing vapours/spray.
Wear appropriate protective equipment. Take off immediately all contaminated clothing and wash it before reuse. Keep unprotected people away.

6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal. Special waste.
Clean contaminated area with soap and water. Clean the floor and all object contaminated by this material.

Additional information: Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Work place should be equipped with a shower and an eye rinsing apparatus.
Avoid contact with skin, eyes, and clothing. Avoid breathing vapours/spray.
Wear appropriate protective equipment. Take off immediately all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Store container tightly closed in a dry area.
Protect from moisture contamination. Protect from exposure to heat, direct sunlight, and cold.
Keep only in the original container.
Do not return unused portions of product to original container.

Hints on joint storage: Do not store together with oxidizing agents.
Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
79-10-7	Acrylic acid	Europe: IOELV: STEL	59 mg/m³; 20 ppm
		Europe: IOELV: TWA	29 mg/m³; 10 ppm
		Great Britain: WEL-STEL	59 mg/m³; 20 ppm (Short-term exposure limit value in relation to a reference period of 1 minute.)
		Great Britain: WEL-TWA	29 mg/m³; 10 ppm (Short-term exposure limit value in relation to a reference period of 1 minute.)
		Ireland: 15 minutes	59 mg/m³; 20 ppm
		Ireland: 8 hours	29 mg/m³; 10 ppm

DNEL/DMEL:

Information about 2-Hydroxyethyl methacrylate:
DNEL long-term, workers, inhalative, systemic: 4.9 mg/m³
DNEL long-term, workers, dermal, systemic: 1.3 mg/kg bw/d
DNEL long-term, consumers, inhalative, systemic: 2.9 mg/m³
DNEL long-term, consumers, oral, systemic: 0.83 mg/kg bw/d
DNEL long-term, consumers, dermal, systemic: 0.83 mg/kg

PNEC:

Information about 2-Hydroxyethyl methacrylate:
PNEC water (freshwater): 0.482 mg/L
PNEC water (marine water): 0.482 mg/L
PNEC water (intermittent release): 1 mg/L
PNEC sewage treatment plant: 10 mg/L
PNEC sediment (freshwater): 3.79 mg/kg dw
PNEC sediment (marine water): 3.79 mg/kg dw
PNEC soil: 0.476 mg/kg dw

8.2 Exposure controls

If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Personal protection equipment

Occupational exposure controls

Respiratory protection:

Respiratory protection must be worn whenever the WEL levels have been exceeded. Use filter type AP-2/3 according to EN 14387.
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!

Hand protection:

Protective gloves according to EN 374.
Glove material:
Butyl caoutchouc (butyl rubber) - Layer thickness: 0.5 mm
Fluororubber (Viton) - Layer thickness: 0.4 mm
Chloroprene rubber - Layer thickness: 0.5 mm
Breakthrough time: >480 min
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection:

tightly sealed goggles according to EN 166.

Body protection:

Wear suitable protective clothing.

General protection and hygiene measures:

Take off immediately all contaminated clothing and wash it before reuse.
Avoid breathing vapours/spray. Avoid contact with skin, eyes, and clothing.
Preventive skin protection. When using do not eat or drink. Wash hands before breaks and after work.
Work place should be equipped with a shower and an eye rinsing apparatus.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid Colour: varying, depends on colouring
Odour:	characteristic
Odour threshold:	No data available
pH value:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	No data available
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Density:	No data available
Solubility:	No data available
Partition coefficient: n-octanol/water:	0.35 log P(o/w) (Acrylic acid) Based on the n-octanol/water partition coefficient accumulation in organisms is not expected. 0.47 log P(o/w) (2-Hydroxyethyl methacrylate) Based on the n-octanol/water partition coefficient accumulation in organisms is not expected. 2.16 log P(o/w) (Cumene hydroperoxide) Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	No data available
Explosive properties:	Product is not explosive.
Oxidizing characteristics:	Product has no oxidizing effect.

9.2 Other information

Additional information:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

refer to section 10.3

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Protect from direct sunlight. Keep away from heat.

10.5 Incompatible materials

Oxidizing agents, acids, alkalis

10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological effects:

The statements are derived from the properties of the single components. No toxicological data is available for the product as such.
Acute toxicity (oral): Based on available data, the classification criteria are not met.
No toxicological data is available for the product as such. The statement is derived from the properties of the single components. ATEmix calculated: >2000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met.
No toxicological data is available for the product as such. The statement is derived from the properties of the single components. ATEmix calculated: >2000 mg/kg

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
No toxicological data is available for the product as such. The statement is derived from the properties of the single components. ATEmix calculated: >20 mg/L/4h

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.

Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Skin Sens. 1; H317 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.
Information about 2-Hydroxyethyl methacrylate
in vivo mutagenicity negative (OECD 471)
Information about Acrylic acid
In vitro mutagenicity negative (OECD 476)
Information about Cumene hydroperoxide
in vivo mutagenicity negative (ECHA-Dossier)

Carcinogenicity: Based on available data, the classification criteria are not met.
Information about Acrylic acid
NOAEL => 10 mg/L (ECHA-Dossier)

Reproductive toxicity: Based on available data, the classification criteria are not met.
Information about 2-Hydroxyethyl methacrylate
NOAEL Rabbit = 50 mg/kg/d (ECHA-Dossier)
Information about Acrylic acid
NOAEC Rat = 0.075 mg/L (ECHA-Dossier)

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): STOT SE 3; H335 = May cause respiratory irritation.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.
Information about 2-Hydroxyethyl methacrylate
NOAEL Rat, oral (90 d): 30 mg/kg/d (ECHA Dossier)

Information about Acrylic acid
NOAEL Rat, oral (90 d): 40 mg/kg (ECHA Dossier)
LOAEC Rat, inhalative (90 d): 0.015 mg/L (ECHA Dossier)

Information about Cumene hydroperoxide
NOAEC Rat, inhalative: 31 mg/m³ (ECHA Dossier)

Aspiration hazard: Based on available data, the classification criteria are not met.

Other information:

Information about 2-Hydroxyethyl methacrylate:
LD50 Rat, oral: >5000 mg/kg
LD50 Rabbit, dermal: >5000 mg/kg

Information about Acrylic acid:
LD50 oral: 500 mg/kg (ATE)
LD50 Rabbit, dermal: > 294 mg/kg (RTECS)
LC50 Rat, inhalative (vapour): > 5.1 mg/L/4h (ECHA-Dossier)
LC50 inhalative (Aerosol): 1.5 mg/L (ATE)

Information about Cumene hydroperoxide:
LD50 oral, Rat: 382 mg/kg (IUCLID)
LD50 Rat, dermal: 500 mg/kg (RTECS)
LC50 Mouse, inhalative (vapour): 200 mg/L/4h (IUCLID)
LC50 inhalative (Aerosol): 0.5 mg/L (ATE)

Information about N,N-Dimethyl-o-toluidine:
LC50 oral: 100 mg/kg (ATE)
LC50 dermal: 300 mg/kg (ATE)
LC50 inhalative (vapour): 3 mg/L (ATE)
LC50 inhalative (Aerosol): 0.5 mg/L (ATE)

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Information about 2-Hydroxyethyl methacrylate
Fish toxicity:
LC50 Pimephales promelas: 227 mg/L/96h
Algae toxicity:
ErC50 Selenastrum capricornutum: 836 mg/L/72h
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): > 380 mg/L/48h (ECHA Dossier, read across)

Information about Acrylic acid:
Fish toxicity:
LC50 Onchorhynchus mykiss: 27 mg/L/96h (ECHA Dossier, read across)
Algae toxicity:
ErC50 Desmodesmus subspicatus: 0.13 mg/L/72h
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): 95 mg/L/48h (ECHA Dossier, read across)

Information about Cumene hydroperoxide:
Fish toxicity:
LC50 Onchorhynchus mykiss: 3.9 mg/L/96h (ECHA Dossier, read across)
Algae toxicity:
ErC50 Desmodesmus subspicatus: 3.1 mg/L/72h
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): 18.84 mg/L/48h (ECHA Dossier, read across)

12.2 Persistence and degradability

Further details:

Information about 2-Hydroxyethyl methacrylate
Biodegradation: > 92 %/14 d. (OECD 301C) (readily biodegradable (according to OECD criteria))

Information about Acrylic acid
Biodegradation: 80 %/28 d. (OECD 301D) (readily biodegradable (according to OECD criteria))

Information about Cumene hydroperoxide
Biodegradation: 3 %/28 d. (OECD 301B) (not readily biodegradable (according to OECD criteria))

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

0.35 log P(o/w) (Acrylic acid)
Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

0.47 log P(o/w) (2-Hydroxyethyl methacrylate)
Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

2.16 log P(o/w) (Cumene hydroperoxide)
Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 Other adverse effects

General information: Do not allow to penetrate into soil, waterbodies or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 08 04 09* = Waste adhesives and sealants containing organic solvents or other dangerous substances.
MFSU = manufacture, formulation, supply and use
* = Evidence for disposal must be provided.

Recommendation: Special waste. Incinerate according to applicable local, state and federal regulations.

Contaminated packaging

Waste key number: 15 01 10* = packaging containing residues of or contaminated by dangerous substances
* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.
Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR: not applicable

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR: Not restricted

14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR: not applicable

14.4 Packing group

ADR/RID, IMDG, IATA-DGR: not applicable

14.5 Environmental hazards

Marine pollutant: no

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

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

No data available

SECTION 15: Regulatory information

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

National regulations - Great Britain

Hazchem-Code: -

No data available

National regulations - EC member states

Labelling of packaging with <= 125mL content

Signal word: **Warning**

Hazard statements:	H317	May cause an allergic skin reaction.
	H335	May cause respiratory irritation.
Precautionary Statements:	P102	Keep out of reach of children.
	P261	Avoid breathing vapours/spray.
	P271	Use only outdoors or in a well-ventilated area.
	P280	Wear protective gloves/protective clothing/eye protection.
	P302+P352	IF ON SKIN: Wash with plenty of water/soap.
	P312	Call a POISON CENTER/doctor if you feel unwell.
	P405	Store locked up.
	P501	Dispose of contents/container to hazardous or special waste collection point.

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 3

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

WINKEL PRO 6W20 HIGH STRENGTH RETAINING COMPOUND

SECTION 16: Other information

Further information

Wording of the H-phrases under paragraph 2 and 3:

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.
H319 = Causes serious eye irritation.
H331 = Toxic if inhaled.
H332 = Harmful if inhaled.
H335 = May cause respiratory irritation.
H373 = May cause damage to organs through prolonged or repeated exposure.
H400 = Very toxic to aquatic life.
H411 = Toxic to aquatic life with long lasting effects.
H412 = Harmful to aquatic life with long lasting effects.

Reason of change: Labelling, P261 (SDS Slovenia)
Date of first version: 6/3/2015

Department issuing data sheet

Contact person: see section 1: Department responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.