KRYLEX®

SAFETY DATA SHEET

KRYLEX KR416 ANAEROBIC RETAINER

Compilation date: 04/07/2018

Revision date: 04/07/2018

Revision No: 2

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

1.1. Product identifier

Product name: KRYLEX KR416 ANAEROBIC RETAINER

Index number: 01-005-1510

Product code: KR416

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

Use of substance / mixture: Anaerobic retainer based on (meth)acrylates.

1.3. Details of the supplier of the safety data sheet

Company name: Chemence Ltd
Princewood Road
Earlstree Industrial Estate
Corby
Northants
NN17 4XD
United Kingdom

Tel: +44 (0) 1536 402 600

Fax: +44 (0) 1536 400 266

Email: technical@chemence.com

1.4. Emergency telephone number

Emergency tel: +44 (0) 1536 402 600 (9am - 5.30pm)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Irrit. 2: H319; Skin Sens. 1: H317

Most important adverse effects: May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements:

Hazard statements: H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Hazard pictograms: GHS07: Exclamation mark
GHS09: Environmental

[cont...]

Signal words: Warning

Precautionary statements: P261: Avoid breathing vapours.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection.

P302+P352: IF ON SKIN: Wash with plenty of water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P363: Wash contaminated clothing before reuse.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

* Hazardous ingredients:

TRIETHYLENEGLYCOL DIMETHACRYLATE - REACH registered number(s): 01-2119969287-21-...

EINECS	CAS	PBT / WEL	CLP Classification	Percent
203-652-6	109-16-0	-	Skin Sens. 1B: H317	25-50%

DI-ISOPROPYLNAPHTHALENE - REACH registered number(s): 01-2119565150-48-...

254-052-6	38640-62-9	-	Asp. Tox. 1: H304; Aquatic Chronic 1: H410	25-50%

HYDROXYPROPYL METHACRYLATE - REACH registered number(s): 01-2119490226-37-...

248-666-3	27813-02-1	-	Eye Irrit. 2: H319; Skin Sens. 1: H317	5-10%

CUMENE HYDROPEROXIDE - REACH registered number(s): 01-211947596-19-...

201-254-7	80-15-9	-	Org. Perox. EF: H242; Acute Tox. 3: H331; Acute Tox. 4: H312; Acute Tox. 4: H302; STOT RE 2: H373; Skin Corr. 1B: H314; Aquatic Chronic 2: H411	1-5%

N,N-DIMETHYL-P-TOLUIDINE - REACH registered number(s): 01-2119937766-23-...

202-805-4	99-97-8	-	Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; STOT RE 2: H373; Aquatic Chronic 3: H412	<0.1%

[cont...]

N,N-BIS-(2-HYDROXYETHYL)-P-TOLUIDINE - REACH registered number(s): 01-2119979579-10-

N/A	103671-44-9	-	Acute Tox. 4: H302; Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Dam. 1: H318; Aquatic Chronic 3: H412	<0.1%

Section 4: First aid measures

4.1. Description of first aid measures

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. Transfer to hospital for specialist examination.

Ingestion: Do not induce vomiting. Wash out mouth with water. If conscious, give half a litre of water to drink immediately. Consult a doctor.

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: There may be irritation and redness at the site of contact. An itchy rash may occur at the site of contact.

Eye contact: There may be irritation and pain. The eyes may water profusely. Corneal burns may occur. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

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.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Dry chemical powder. Alcohol resistant foam. Carbon dioxide. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of nitrogen oxides.

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.

[cont...]

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.

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: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep away from sources of ignition. Keep away from direct sunlight. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure all engineering measures mentioned in section 7 of SDS are in place.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency. Gas/vapour filter, type A: organic vapours (EN141).

[cont...]

Hand protection:	Neoprene gloves. Nitrile gloves. Do not use PVC gloves, as they absorb (meth)acrylates.
Eye protection:	Safety glasses with side-shields. Ensure eye bath is to hand.
Skin protection:	Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State:	Liquid
Colour:	Clear yellow
Odour:	Characteristic odour
Evaporation rate:	Negligible
Oxidising:	Non-oxidising (by EC criteria)
Solubility in water:	Insoluble
Also soluble in:	Acetone.
Viscosity:	Viscous
Kinematic viscosity:	~ 500 cPs
Viscosity test method:	Rotational viscometer
Boiling point/range°C:	No data available.
Melting point/range°C:	No data available.
Flammability limits %: lower:	n/a
upper:	n/a
Flash point°C:	>100
Part.coeff. n-octanol/water:	n/e
Autoflammability°C:	No data available.
Vapour pressure:	~0.1mmHg @ 20oC
Relative density:	~1.07
pH:	~4-6
VOC g/l:	No data available.

9.2. Other information

Other information: 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: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat. Sources of ignition. Direct sunlight.

[cont...]

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Free-radical initiators. Copper.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of nitrogen oxides.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

DI-ISOPROPYLNAPHTHALENE

ORL	RAT	LD50	3900	mg/kg

HYDROXYPROPYL METHACRYLATE

ORL	MUS	LD50	7964	mg/kg

CUMENE HYDROPEROXIDE

ORL	MUS	LDLO	5	gm/kg
ORL	RAT	LD50	382	mg/kg
SCU	RAT	LD50	382	mg/kg
VAPOURS	RAT	4H LC50	220	ppmV

N,N-DIMETHYL-P-TOLUIDINE

IPR	MUS	LD50	212	mg/kg

N,N-BIS-(2-HYDROXYETHYL)-P-TOLUIDINE

ORAL	-	OECD No.401	619	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	DRM	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact. An itchy rash may occur at the site of contact.

Eye contact: There may be irritation and pain. The eyes may water profusely. Corneal burns may occur. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

[cont...]

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

TRIETHYLENEGLYCOL DIMETHACRYLATE

ALGAE	48H EC50	>100	mg/l
FISH	96H LC50	16.4	mg/l

HYDROXYPROPYL METHACRYLATE

FISH	96H LC50	>100	mg/l

CUMENE HYDROPEROXIDE

FISH	96H LC50	3.9	mg/l

N,N-BIS-(2-HYDROXYETHYL)-P-TOLUIDINE

ALGAE	48H EC50	>100	mg/l
CRUSTACEA	48H EC50	48	mg/l
FISH	96H LC50	>100	mg/l

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Non-volatile. Heavier than water.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms. Toxic to soil organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company. Alternatively, product can be polymerised using AC64 activator (care should be taken if polymerising a large quantity of product due to exothermic reaction).

[cont...]

Hardened product can be disposed of as chemical waste by incineration or licensed contractors.

Waste code number: 08 04 09

Disposal of packaging: Dispose of as normal industrial waste.

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

UN number: UN3082

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(n/a)

14.3. Transport hazard class(es)

Transport class: 9

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: Yes Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

Section 15: Regulatory information

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

Specific regulations: * Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: * This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.
* indicates text in the SDS which has changed since the last revision.

[cont...]

Phrases used in s.2 and s.3:

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.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H331: Toxic if inhaled.
H373: May cause damage to organs ({{{0|||message=<or state all organs affected, if known>|||filter=(_)?ORGAN_.+}}}) through prolonged or repeated exposure ({{{1||| message=<state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>|||filter=(_)?EXP_ROUTE_.+}}}).
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H411: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.

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