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

1.1 Product identifier

Threadlocker 230-270

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

1.2.1 Relevant uses

Adhesive Sealing material

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company WINKEL GmbH

Lisztstraße 1

53881 Euskirchen - Germany Tel.: +49 2251 77 69 400-401 Fax: +49 2251 77 69 402 E-Mail: info@winkelgroup.de Internet: www.winkelgroup.de

Address enquiries to

Technical information <u>info@winkelgroup.de</u>

1.4 Emergency telephone number

BfR Bundesinstitut für Risikobewertung: +49-30-18412-0

Ontario Poison Centre: +1 (800)-268-9017

Alberta Poison & Drug Information Service: +1 (800) 332-1414

Centre antipoison du Québec: +1 (800) 463-5060

American Association of Poison Control Centers: +1 (800) 222-1222

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

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.

Aquatic Chronic 4: H413 May cause long lasting harmful effects to aquatic life.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms



Signal word WARNING

Contains: 2-Hydroxyethyl methacrylate

2,2'-Ethylenedioxydiethyl dimethacrylate

Cumene hydroperoxide 2'-Phenylacetohydrazide

Hazard statements H315 Causes skin irritation.

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

H413 May cause long lasting harmful effects to aquatic life.

Precautionary statements P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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

P280 Wear protective gloves / eye protection / face protection.

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. P337+P313 If eye irritation persists: Get medical advice / attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/national regulation.



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2.3 Other hazards

Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Substances

not applicable

3.2 **Mixtures**

The product is a mixture.

Range [%]	Substance
30 - 45	Bisphenol A ethoxylate dimethacrylate
	CAS: 41637-38-1, EINECS/ELINCS: Polymer, Reg-No.: 01-2119980659-17
	GHS/CLP: Aquatic Chronic 4: H413
30 - 45	2-Hydroxyethyl methacrylate
	CAS: 868-77-9, EINECS/ELINCS: 212-782-2, EU-INDEX: 607-124-00-X, Reg-No.: 01-2119490169-29
	GHS/CLP: Eye Irrit. 2: H319 - Skin Sens. 1: H317 - Skin Irrit. 2: H315
1 - 5	2,2'-Ethylenedioxydiethyl dimethacrylate
	CAS: 109-16-0, EINECS/ELINCS: 203-652-6, Reg-No.: 01-2119969287-21
	GHS/CLP: Skin Sens. 1: H317
≤ 1,5	Cumene hydroperoxide
	CAS: 80-15-9, EINECS/ELINCS: 201-254-7, EU-INDEX: 617-002-00-8
	GHS/CLP: Org. Perox. E: H242 - Acute Tox. 3: H331 - Acute Tox. 4: H302 H312 - STOT RE 2: H373 - Skin Corr.
	1B: H314 - Aquatic Chronic 2: H411, M acute = 1
01-<05	2'-Phenylacetohydrazide
0,1 (0,0	CAS: 114-83-0, EINECS/ELINCS: 204-055-3
	GHS/CLP: Acute Tox. 3: H301 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - Skin Sens. 1: H317 - STOT SE 3: H335
0,01 - < 0,05	1,4-Dihydroxybenzene
	CAS: 123-31-9, EINECS/ELINCS: 204-617-8, EU-INDEX: 604-005-00-4
	GHS/CLP: Carc. 2: H351 - Muta. 2: H341 - Acute Tox. 4: H302 - Eye Dam. 1: H318 - Skin Sens. 1: H317 - Aquatic Acute 1: H400, M acute = 10
	m_uouto = 10

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

Description of first aid measures

General information Change soaked clothing.

Inhalation Ensure supply of fresh air.

In case of contact with skin wash off immediately with plenty of water. Skin contact

Consult a doctor if skin irritation persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Ingestion Get medical advice.

Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

Most important symptoms and effects, both acute and delayed 4.2

No information available.

Indication of any immediate medical attention and special treatment needed 4.3

Treat symptomatically.

Forward this sheet to the doctor.

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SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media foam

foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not

be used

Full water jet.

5.2 Special hazards arising from the substance or mixture

Nitrogen oxides (NOx).

Risk of formation of toxic pyrolysis products.

Carbon monoxide (CO)

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Wear full protective suit.

Collect contaminated firefighting water separately, must not be discharged into the drains. Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective clothing.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Open and handle container with care.

Keep away from sources of ignition - refrain from smoking.

Contaminated work clothing should not be allowed out of the workplace.

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

Wash hands before breaks and after work.

Use barrier skin cream.

Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Do not store together with oxidizing agents.

Do not store together with acids.

Keep container in a well-ventilated place.

Keep container tightly closed.

Store in a dry place.

Recommended storage temperature: < 25°C

Protect from sun.



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7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

not applicable

DNEL

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general population, inhalative, Long-term - systemic effects: 14.5 mg/m³ (AF=69).		

PNEC

2-Hydroxyethyl methacrylate, CAS: 868-77-9		
sediment (freshwater), 3,79 mg/kg dw.		
sewage treatment plants (STP), 10 mg/l.		
soil, 0,476 mg/kg dw.		
freshwater, 0,482 mg/l.		
Bisphenol A ethoxylate dimethacrylate, CAS: 41637-38-1		
There are no PNEC values established for the substance.,		
2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0		
soil, 0.027 mg/kg dw.		
sediment (seawater), 0.018 mg/kg dw.		
sediment (freshwater), 0.185 mg/kg dw.		
sewage treatment plants (STP), 1.7 mg/L (AF=10).		
seawater, 0.002 mg/L (AF=10 000).		
freshwater, 0.016 mg/L (AF=1000).		

Substance

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8.2 Exposure controls

Additional advice on system design Ensure adequate ventilation on workstation.

Eye protection Safety glasses. (EN 166:2001)

Hand protection The details concerned are recommendations. Please contact the glove supplier for further

information. In full contact:

> 0,4mm/ Butyl rubber, >480 min (EN 374-1/-2/-3).

In splash contact:

> 0,4mm/ Nitrile rubber, >480 min (EN 374-1/-2/-3).

Skin protection light protective clothing

Other Avoid contact with eyes and skin.

Personal protective equipment should be selected specifically for the working place,

depending on concentration and quantity handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier.

Breathing apparatus in the event of aerosol or mist formation.

Short term: filter apparatus, filter A. (DIN EN 14387)

Thermal hazards Delimitation and monitoring of the

Respiratory protection

See SECTION 6+7.

not applicable

environmental exposition SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Form pasty Color green Odor characteristic

Odour threshold No information available.

pH-value not applicable pH-value [1%] not applicable

Boiling point [°C] No information available.

Flash point [°C] >100

Flammability (solid, gas) [°C] No information available.

Lower explosion limit not applicable **Upper explosion limit** not applicable

Oxidising properties

Vapour pressure/gas pressure [kPa] No information available.

Density [g/ml] ca. 1.1 Bulk density [kg/m³] not applicable Solubility in water partially soluble

Partition coefficient [n-octanol/water] No information available. 400 - 700 mPas (25°C) Viscosity Relative vapour density determined No information available.

in air

Evaporation speed No information available. Melting point [°C] No information available Autoignition temperature [°C] No information available. Decomposition temperature [°C] No information available.

Other information

Temperature resistance: -55 - 150 °C

SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

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10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents and strong acids. Polymerization may occur at elevated temperature.

10.4 Conditions to avoid

See SECTION 7.2. Strong heating.

10.5 Incompatible materials

Various metals.

10.6 Hazardous decomposition products

Irritant gases/vapours.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Substance 1,4-Dihydroxybenzene, CAS: 123-31-9 LD50, dermal, Rabbit: 2000 mg/kg. LD50, oral, Rat: 375 mg/kg. Cumene hydroperoxide, CAS: 80-15-9 LD50, oral, Rat: 382 mg/kg IUCLID. LC50, inhalative, Rat: 220 ppm 4h IUCLID. 2'-Phenylacetohydrazide, CAS: 114-83-0 LD50, oral, mouse: 270 mg/kg bw (Lit.). 2-Hydroxyethyl methacrylate, CAS: 868-77-9 LD50, dermal, Rabbit: > 5000 mg/kg. LD50, oral, Rat: > 5000 mg/kg. Bisphenol A ethoxylate dimethacrylate, CAS: 41637-38-1 LD50, dermal, Rat: > 2000 mg/kg bw. LD50, oral, Rat: > 2000 mg/kg bw. 2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0 LD50, oral, Rat: 2000 - 5000 mg/kg bw.

Serious eye damage/irritation Toxicological data of complete product are not available.

Irritant

LD50, dermal, mouse: > 2000 mg/kg bw.

Calculation method

Skin corrosion/irritation Toxicological data of complete product are not available.

Irritant

Calculation method

Respiratory or skin sensitisation Toxicological data of complete product are not available.

May cause an allergic skin reaction.

Calculation method

Specific target organ toxicity —

single exposure

Toxicological data of complete product are not available.

May cause respiratory irritation.

Calculation method

Specific target organ toxicity —

repeated exposure

Based on the available information, the classification criteria are not fulfilled.

Mutagenicity Based on the available information, the classification criteria are not fulfilled.

Reproduction toxicityBased on the available information, the classification criteria are not fulfilled.CarcinogenicityBased on the available information, the classification criteria are not fulfilled.Aspiration hazardBased on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.



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SECTION 12: Ecological information

12.1 Toxicity

Substance
1,4-Dihydroxybenzene, CAS: 123-31-9
LC50, (96h), fish: 638 μg/L.
EC50, (48h), Invertebrates: 61 - 134 μg/L.
EC50, (72h), Algae: 33 - 330 μg/L.
Cumene hydroperoxide, CAS: 80-15-9
LC50, (96h), Oncorhynchus mykiss: 3,9 mg/l.
EC50, (24h), Daphnia magna: 7 mg/l.
2-Hydroxyethyl methacrylate, CAS: 868-77-9
LC50, (96h), Oryzias latipes: > 100 mg/l (OECD 203).
EC50, (72h), Selenastrum capricornutum: 836 mg/l (OECD 201).
EC50, (48h), Daphnia magna: 380 mg/l (OECD 202).
NOEC, (21d), Daphnia magna: 24,1 mg/l (OECD 202).
NOEC, (72h), Selenastrum capricornutum: 400 mg/l (OECD 201).
Bisphenol A ethoxylate dimethacrylate, CAS: 41637-38-1
Log Kow: 5.30 - 5.62.
EL50, (72h), Pseudokirchneriella subcapitata: > 100 mg/L.
EL50, (48h), Daphnia magna: > 100 mg/L.
LL50, (96h), Brachidanio rerio: > 100 mg/L.
BCF, Log Koc. 3.69 - 3.88 (20°C).
2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0
LC50, (96h), Brachidanio rerio: 16.4 mg/L.
EC50, (21d), Daphnia magna: 51.9 mg/L.
EC50, (72h), Pseudokirchneriella subcapitata: > 100 mg/L.

12.2 Persistence and degradability

Behaviour in environment not determined

compartments

Behaviour in sewage plant not applicable
Biological degradability not applicable

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

Ecological data of complete product are not available.

The product was classified on the basis of the calculation procedure of the preparation directive.



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.

Waste no. (recommended)

080409*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID

not applicable

Inland navigation (ADN)

not applicable

Marine transport in accordance with

IMDG

not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to

ADR/RID

NO DANGEROUS GOODS

Inland navigation (ADN)

NO DANGEROUS GOODS

IMDG

Marine transport in accordance with NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN)

not applicable

Marine transport in accordance with not applicable

IMDG

Air transport in accordance with IATA not applicable

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14.4 Packing group

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN)

not applicable

Marine transport in accordance with

not applicable

IMDG

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to

ADR/RID

no

Inland navigation (ADN)

no

Marine transport in accordance with

IMDG

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS 2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006

(REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2015/830; (EU) 2016/131;

(EU) 517/2014

TRANSPORT-REGULATIONS ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2020)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- Observe employment restrictions

for people

Observe employment restrictions for mothers-to-be and nursing mothers. Observe

employment restrictions for young people.

- VOC (2010/75/CE) not applicable

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

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SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H400 Very toxic to aquatic life.

H318 Causes serious eye damage.

H302 Harmful if swallowed.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H413 May cause long lasting harmful effects to aquatic life.

H335 May cause respiratory irritation.

H301 Toxic if swallowed.

H411 Toxic to aquatic life with long lasting effects.

H314 Causes severe skin burns and eye damage.

H373 May cause damage to organs through prolonged or repeated exposure.

H302+H312 Harmful if swallowed or in contact with skin.

H331 Toxic if inhaled.

H242 Heating may cause a fire.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ATE = acute toxicity estimate

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level

DNEL = Derived No Effect Level

EC50 = Median effective concentration

ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

EL50 = Median effective loading

ELINCS = European List of Notified Chemical Substances

EmS = Emergency Schedules

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform Chemical Information Database

LC50 = Lethal concentration, 50%

LD50 = Median lethal dose

LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LL50 = Median lethal loading

LQ = Limited Quantities

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV®/TWA = Threshold limit value – time-weighted average

TLV®STEL = Threshold limit value - short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

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16.3 Other information

Customs Tariff not determined

Classification procedure Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)

Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method) Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method) STOT SE 3: H335 May cause respiratory irritation. (Calculation method)

Aquatic Chronic 4: H413 May cause long lasting harmful effects to aquatic life. (Calculation

method)

Modified position none