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Safety Data Sheet

according to Regulation (EC) No 1907/2006

Rhepanol h-Nahtreiniger

Revision: 09.04.2025 Product code: FDT-024 Page 1 of 13

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

1.1. Product identifier

Rhepanol h-Nahtreiniger

UFI: SY71-38MT-X00X-PGYX

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

Use of the substance/mixture

cleaner

Uses advised against

Only use for the intended purpose.

The product is intended for professional use.

1.3. Details of the supplier of the safety data sheet

Company name: FDT Flachdach Technologie GmbH

Street: Eisenbahnstraße 6-8
Place: D-68199 Mannheim
Telephone: +49 (621) 8504100

E-mail: kundenservice@fdt.de

Contact person: Fachkraft für Arbeitssicherheit

E-mail: gefahrstoffe@fdt.de Internet: http://www.fdt.de

Responsible Department: Arbeitssicherheit und Umweltschutz

1.4. Emergency telephone Emergency Action: In the event of a medical enquiry involving this product,

number: please contact your doctor or local hospital accident and emergency department

or the NHS enquiry service. This safety data sheet is an English translation of the EU safety data sheet and is not suitable for the distribution in a specific

country.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3: H336

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

butanone; ethyl methyl ketone

1-methoxy-2-propanol; monopropylene glycol methyl ether

Signal word: Danger

Pictograms:





Hazard statements

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.



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Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P243 Take action to prevent static discharges.

P280 Wear protective gloves and eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

or shower.

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.

P501 Dispose of contents/container to an appropriate recycling or disposal facility.

Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

Endocrine disrupting properties: butanone; ethyl methyl ketone.

The product does not meet the PBT or vPvB criteria in Annex XIII of the REACH Regulation.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name	Chemical name		
	EC No	Index No	ndex No REACH No	
	Classification (Regulation (EC) No 1272/2008)			
78-93-3	butanone; ethyl methyl ketone			
	201-159-0	606-002-00-3 01-2119457290-43		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether			45 %
	203-539-1	603-064-00-3 01-2119457435-35		
	Flam. Liq. 3, STOT SE 3; H226 H336			

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

Specific Conc. Limits, M-factors and ATE

	poomo Conor Eminto, in ractore ana 711 E				
CAS No	EC No	EC No Chemical name			
	Specific Conc. Limits, M-factors and ATE				
78-93-3	201-159-0	butanone; ethyl methyl ketone	55 %		
	inhalation: LC50 = 34 mg/l (vapours); dermal: LD50 = >5000 mg/kg; oral: LD50 = >2193 mg/kg				
107-98-2	203-539-1	03-539-1 1-methoxy-2-propanol; monopropylene glycol methyl ether			
	dermal: LD50 = >2000 mg/kg; oral: LD50 = 4016 mg/kg				

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of troubles or persistent symptoms, consult an doctor/physician.

Remove persons from danger area and lie them down. Never orally infuse something to an unconscious person. No special first aid measures necessary. A vomiting, supine person must be brought into recovery position.

After inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of irregular breathing or respiratory arrest, perform artificial respiration.



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After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, consult a physician.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

After ingestion

Rinse mouth, spit liquid again. Do NOT induce vomiting. Let water be drunken in little sips (dilution effect). Call a physician immediately.

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

Causes serious eye irritation.

May cause drowsiness or dizziness.

Repeated exposure may cause skin dryness or cracking.

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

Carbon dioxide (CO2). Extinguishing powder. Water spray. Fight larger fires with water spray jet or alcohol-resistant foam.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Vapours may form explosive mixtures with air. Vapours are heavier than air and will spread at floor level.

Thermal decomposition can lead to harmful gases and vapours.

5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings. Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Do not allow to enter into surface water or drains. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Keep away from sources of ignition - No smoking.

Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment

Take up mechanically. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7



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Personal precautions: refer to section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaustion at critical locations. Handle and open container with care. Avoid the formation of aerosol.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Advice on general occupational hygiene

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink. Avoid contact with skin, eyes and clothes. After contact with skin, wash immediately with plenty of water and soap or a suitable cleaning agent.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store only in original container. Keep container tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

cleaner

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
78-93-3	Methyl ethyl ketone (MEK) (Butan-2-one)	200	600		TWA (8 h)	
		300	900		STEL (15 min)	
107-98-2	Propylene glycol monomethyl ether	100	375		TWA (8 h)	
		150	568		STEL (15 min)	

Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	Butan-2-one	70 µmol/L	Urine	Post shift



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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
78-93-3	butanone; ethyl methyl ketone			
Worker DNEL,	long-term	dermal	systemic	1161 mg/kg bw/day
Worker DNEL,	long-term	inhalation	systemic	600 mg/m³
Consumer DN	EL, acute	dermal	local	412
Consumer DN	EL, long-term	inhalation	systemic	106 mg/m³
Consumer DN	EL, long-term	oral	systemic	31 mg/kg bw/day
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether	•		
Worker DNEL,	acute	inhalation	local	553,5 mg/m³
Worker DNEL,	long-term	dermal	systemic	50,6 mg/kg bw/day
Worker DNEL,	long-term	inhalation	systemic	369 mg/m³
Consumer DN	EL, long-term	dermal	systemic	18,1 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	43,9 mg/m³
Consumer DN	Consumer DNEL, long-term		systemic	3,3 mg/kg bw/day

PNEC values

CAS No	Substance			
Environmen	Environmental compartment			
78-93-3	butanone; ethyl methyl ketone			
Freshwater		55,8 mg/l		
Marine wate	r	55,8 mg/l		
Micro-organ	isms in sewage treatment plants (STP)	709 mg/l		
Soil		22,5 mg/kg		
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether			
Freshwater		10 mg/l		
Marine wate	r	1 mg/l		
Micro-organ	isms in sewage treatment plants (STP)	100 mg/l		
Freshwater	sediment	41,6 mg/kg		
Marine sediment 4,		4,17 mg/kg		
Soil 2,47 m		2,47 mg/kg		

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tighty fitting safety glasses with side shields.

Hand protection

Protect skin by using skin protective cream. Wear suitable gloves.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.



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Suitable material: Butyl rubber. NBR (Nitrile rubber). NR (Natural rubber (Caoutchouc), Natural latex). PVC (Polyvinyl chloride).

penetration time (maximum wearing period): >240 minutes

Skin protection

Full cover clothing covering arms and legs.

Respiratory protection

Use protective filter mask in case of short-term and low exposure; in case of intense or longer exposure, use respiratory protection device operating independently from circulating air.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: characteristic

Test method

Melting point/freezing point:

Boiling point or initial boiling point and

79 °C

boiling range:

Flammability: not determined Lower explosion limits: 1,8 vol. % Upper explosion limits: 12,0 vol. % Flash point: -4 °C

Auto-ignition temperature: 278 °C DIN 51794

Decomposition temperature: not determined pH-Value: not determined Viscosity / kinematic: not determined Water solubility: Not mixable and/or hard to mix. Partition coefficient n-octanol/water: not determined

Vapour pressure: 95 hPa

(at 20 °C)

Density (at 20 °C): 0,863 g/cm³ DIN 53217

Relative vapour density: not determined

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not explosive, however, formation of explosive mixtures are possible.

Self-ignition temperature

Gas: not determined

Oxidizing properties not determined

Other safety characteristics

Solvent content: 100,0%

Viscosity / dynamic: 1 mPa·s ISO 2555

(at 20 °C)

Further Information

No further data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactivity under regular conditions.



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10.2. Chemical stability

The product is stable under regular conditions.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Electrostatic charges.

10.5. Incompatible materials

acid. Alkalis (alkalis). Oxidizing agents, strong.

10.6. Hazardous decomposition products

Thermal decomposition can lead to harmful gases and vapours.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
78-93-3	butanone; ethyl methyl ketone					
	oral	LD50 mg/kg	>2193	Rat	OECD 423	
	dermal	LD50 mg/kg	>5000	Rabbit	OECD 402	
	inhalation (4 h) vapour	LC50	34 mg/l	Rat		
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether					
	oral	LD50 mg/kg	4016	Rat		
	dermal	LD50 mg/kg	>2000	Rabbit		

Irritation and corrosivity

Serious eye damage/eye irritation: Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Repeated exposure may cause skin dryness or cracking.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness. (butanone; ethyl methyl ketone; 1-methoxy-2-propanol; monopropylene glycol methyl ether)

STOT-repeated exposure

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

Aspiration hazard

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



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11.2. Information on other hazards

Endocrine disrupting properties

Endocrine disrupting properties: butanone; ethyl methyl ketone.

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name	Chemical name					
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
78-93-3	butanone; ethyl methyl ketone						
	Acute fish toxicity	LC50 mg/l	2990	96 h	Pimephales promelas	OECD 203	
	Acute algae toxicity	ErC50 mg/l	1972	72 h	Pseudokirchneriella subcapitata	OECD 201	
	Acute crustacea toxicity	EC50	308 mg/l	48 h	Daphnia magna	OECD 202	
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether						
	Acute fish toxicity	LC50 mg/l	6812	96 h	Leuciscus idus		
	Acute crustacea toxicity	EC50 25900 mg/l	21100-	48 h	Daphnia magna		

12.2. Persistence and degradability

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether				
	OECD 301E	96%	28		

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether	0,37

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Disposal according to official regulations.

Consult the local waste disposal expert about waste disposal. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

List of Wastes Code - residues/unused products



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070104 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals; other organic solvents, washing liquids and

mother liquors; hazardous waste

List of Wastes Code - used product

WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation. 070104

supply and use (MFSU) of basic organic chemicals; other organic solvents, washing liquids and

mother liquors: hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

> PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by

hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1993

FLAMMABLE LIQUID, N.O.S. (butanone; ethyl methyl ketone, 14.2. UN proper shipping name:

1-methoxy-2-propanol; monopropylene glycol methyl ether)

14.3. Transport hazard class(es): 3 14.4. Packing group: П

Hazard label: 3



Classification code:

Special Provisions: 274 601 640D

Limited quantity: 1 I Excepted quantity: E2 Transport category: 2 Hazard No: 33 Tunnel restriction code: D/F

Inland waterways transport (ADN)

UN 1993 14.1. UN number or ID number:

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (butanone; ethyl methyl ketone,

1-methoxy-2-propanol; monopropylene glycol methyl ether)

14.3. Transport hazard class(es): 3 14.4. Packing group: Ш

Hazard label: 3



Classification code:

Special Provisions: 274 601 640D

Limited quantity: 1 I Excepted quantity: F2

Marine transport (IMDG)

14.1. UN number or ID number: UN 1993



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FLAMMABLE LIQUID, N.O.S. (butanone; ethyl methyl ketone, 14.2. UN proper shipping name:

1-methoxy-2-propanol; monopropylene glycol methyl ether)

14.3. Transport hazard class(es): 3 Ш 14.4. Packing group: Hazard label: 3



Marine pollutant: Nein **Special Provisions:** 274 Limited quantity: 1 L Excepted quantity: F2 EmS: F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (butanone; ethyl methyl ketone,

1-methoxy-2-propanol; monopropylene glycol methyl ether)

14.3. Transport hazard class(es): 14.4. Packing group: Ш Hazard label: 3



Special Provisions: A3 Limited quantity Passenger: 1 L Passenger LQ: Y341 Excepted quantity: F2

IATA-packing instructions - Passenger: 353 IATA-max. quantity - Passenger: 5 L IATA-packing instructions - Cargo: 364 IATA-max. quantity - Cargo: 60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No special precautions known.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 40, Entry 75

Directive 2010/75/EU on industrial 100 % (863 g/l)

emissions:

Directive 2004/42/EC on VOC in 862,5 g/l

paints and varnishes:

Additional information

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable

Regulation (EC) No. 648/2004 [Detergents regulation]: not applicable



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Regulation (EC) No 2019/1021 on persistent organic pollutants: not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: This mix contains no chemicals that are subject to the export notification procedures (annex 1).

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of

child-bearing age.

Water hazard class (D): 1 - slightly hazardous to water

Additional information

Observe in addition any national regulations!

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

butanone; ethyl methyl ketone

1-methoxy-2-propanol; monopropylene glycol methyl ether

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,4,6,8,12,13,15,16.

Version 1,00 - Creation - 07.08.2012

Version 1,01 - Classification/Labeling according Regulation No.1272/2008 (GHS/CLP) and general revision -

27.07.2015 General revision as part of of translation activities - 21.11.2018

Version 1,02 - General update - 21.01.2021

Version 1,03 - General update - 09.04.2025



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Abbreviations and acronyms

Flam. Liq. 2: Flammable liquids, hazard category 2

Eye Irrit. 2: Eye irritation, hazard category 2

STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

BImSchV (Fed.Imm.Prot.Act): Directive on the Implementation of the Federal Immission Protection Act

CAS: Chemical Abstracts Service

DIN: Norm of the Deutsche Institut für Normung (German Institute for Standardization)

EC: Effective Concentration

EG: European Community (Europäische Gemeinschaft)

EN: European Norm

IATA: International Air Transport Association

IBC Code: International Code for the Construction and Equipment of ships carrying Dangerous Chemicals in

Bulk

ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods ISO: Norm of the International Standards Organization

CLP: Classification, Labeling, Packaging

IUCLID: International Uniform Chemical Information Database

LC: Lethal concentration

LD: Lethal dose

log Kow: Octanol/water partition coefficient

MARPOL: Maritime Pollution Convention = Convention for the Prevention of Maritime Pollution from Ships

OECD: Organisation for Economic Co-operation and Development

PBT: Persistent, bio-cumulative, toxic

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail

TRGS: Technische Regeln für Gefahrstoffe

UN: United Nations

VOC: Volatile Organic Compounds

vPvB: very persistent and very bio-cumulative

WGK: German Water Hazard Class

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration

TLV: Threshold Limiting Value STOT: Specific Target Organ Toxicity

AwSV: Ordinance on Installations for Handling Substances Hazardous to Water

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H336	Calculation method

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

Further Information

The information given in this safety data sheet is to describe the product's safety regulations. It is not for



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guaranteeing certain characteristics and is based on today's knowledge. The safety data sheet was generated upon information of pre-suppliers by:

asseso AG, Ottostraße 1, 63741, Aschaffenburg, Germany

Phone: +49 (0)6021 - 1 50 86-0, Fax: +49 (0)6021 - 1 50 86-77, E-Mail: eu-sds@asseso.eu, www.asseso.eu

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)