

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Autol HEL Premium Wirkstoff, Art.-no. 1032
Revision date : 03.05.2017
Print date : 03.05.2017

Version (Revision) : 8.0.0 (7.0.0)

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

1.1 Product identifier

Autol HEL Premium Wirkstoff

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

Relevant identified uses

additive for mineral oil products

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Eni Schmiertechnik GmbH

Street : Paradiesstr. 14

Postal code/city : D-97080 Würzburg

Telephone : (+49) 931 900 98-0

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Information contact : Technical Department, Tel. (+49) 931 900 98-145
technik.wuerzburg@agip.de - www.enischmiertechnik-datenblaetter.de

1.4 Emergency telephone number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects.

Asp. Tox. 1 ; H304 - Aspiration hazard : Category 1 ; May be fatal if swallowed and enters airways.

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

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

Skin Sens. 1A ; H317 - Skin sensitisation : Category 1A ; May cause an allergic skin reaction.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Health hazard (GHS08) · Environment (GHS09) · Exclamation mark (GHS07)

Signal word

Danger

Hazard components for labelling

HYDROCARBONS, C14-C18, N-ALKANES,..., AROMATICS (2-30 %)

HYDROCARBONS, C11-C14, N-ALKANES,..., AROMATICS (2-25 %)

N,N-BIS(2-ETHYLHEXYL)-((1,2,4-TRIAZOL-1-YL)METHYL)AMINE ; CAS No. : 91273-04-0

A,A'-PROPYLENEDIDINITRILODI-O-CRESOL ; CAS No. : 94-91-7

Hazard statements

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H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/....
P331 Do NOT induce vomiting.
P501 Dispose of contents/container as per local and national regulations.

Additional information

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.
P362+P364 - Take off contaminated clothing and wash it before reuse.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

HYDROCARBONS, C14-C18, N-ALKANES,..., AROMATICS (2-30 %) ; REACH registration No. : 01-2119448343-41-xxxx ; EC No. : 920-360-0

Weight fraction : $\geq 25 - < 50$ %
Classification 1272/2008 [CLP] : Asp. Tox. 1 ; H304

HYDROCARBONS, C11-C14, N-ALKANES,..., AROMATICS (2-25 %) ; REACH registration No. : 01-2119458869-15-xxxx ; EC No. : 925-653-7

Weight fraction : $\geq 25 - < 50$ %
Classification 1272/2008 [CLP] : Asp. Tox. 1 ; H304 Aquatic Chronic 3 ; H412

2,6-DIMETHYLOCT-7-EN-2-OL ; REACH registration No. : 01-2119457274-37-XXXX ; EC No. : 242-362-4 ; CAS No. : 18479-58-8

Weight fraction : $\geq 5 - < 10$ %
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

2,6-DI-TERT-BUTYL-PHENOL ; REACH registration No. : 01-2119490822-33-xxxx ; EC No. : 204-884-0 ; CAS No. : 128-39-2

Weight fraction : $\geq 1 - < 5$ %
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. ; EC No. : 265-198-5 ; CAS No. : 64742-94-5

Weight fraction : $\geq 1 - < 5$ %
Classification 1272/2008 [CLP] : Asp. Tox. 1 ; H304 Skin Irrit. 2 ; H315 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411

DICYCLOHEXYLAMINE ; REACH registration No. : 01-2119493354-33-XXXX ; EC No. : 202-980-7 ; CAS No. : 101-83-7

Weight fraction : $\geq 1 - < 3$ %
Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

N,N-BIS(2-ETHYLHEXYL)-((1,2,4-TRIAZOL-1-YL)METHYL)AMINE ; REACH registration No. : 01-2119930450-49-xxxx ; EC No. : 401-280-0 ; CAS No. : 91273-04-0

Weight fraction : $\geq 0,1 - < 1$ %
Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Skin Sens. 1A ; H317 Aquatic Chronic 1 ;

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H410

A,A'-PROPYLENEDIDINITRILODI-O-CRESOL ; EC No. : 202-374-2; CAS No. : 94-91-7

Weight fraction : $\geq 0,1 - < 0,3$ %

Classification 1272/2008 [CLP] : Repr. 1B ; H360 Acute Tox. 4 ; H302 Skin Sens. 1 ; H317 Aquatic Chronic 3 ; H412

NAPHTHALENE ; REACH registration No. : 01-2119561346-37-XXXX ; EC No. : 202-049-5; CAS No. : 91-20-3

Weight fraction : < 1 %

Classification 1272/2008 [CLP] : Carc. 2 ; H351 Acute Tox. 4 ; H302 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

1,2,4-TRIMETHYLBENZENE ; EC No. : 202-436-9; CAS No. : 95-63-6

Weight fraction : < 1 %

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335 Aquatic Chronic 2 ; H411

MESITYLENE ; REACH registration No. : 01-2119463878-19-0000 ; EC No. : 203-604-4; CAS No. : 108-67-8

Weight fraction : < 1 %

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H335 Aquatic Chronic 2 ; H411

Additional information

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Observe risk of aspiration if vomiting occurs.

Following inhalation

Provide fresh air. Remove victim out of the danger area.

In case of skin contact

Wash immediately with: Soap Immediately remove all contaminated clothing.

After eye contact

Flush with plenty of water (10 - 15 min.). Call a physician. Consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Let water be drunken in little sips (dilution effect). Keep at rest. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Frequently or prolonged contact with skin may cause dermal irritation.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂) Sand Foam Dry extinguishing powder Water spray jet

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated: Carbon dioxide (CO₂) Carbon monoxide Nitrogen oxides (NO_x) Pyrolysis products, toxic

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5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

Special protective equipment for firefighters

Burning produces heavy smoke.

5.4 Additional information

Move undamaged containers from immediate hazard area if it can be done safely. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Take the precautions customary when handling chemicals. Keep away from ignition sources on account of the organic solvent content and air room well. Do not inhale vapours.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Take up with a liquid absorbing material and proceed according to the waste disposal regulations.

6.3 Methods and material for containment and cleaning up

Remove mechanically, take-up residues with absorbing material.

For cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Other information

Clear spills immediately.

6.4 Reference to other sections

None

SECTION 7: Handling and storage



7.1 Precautions for safe handling

Take the precautions customary when handling chemicals. Only use the material in places where open light, fire and other flammable sources can be kept away.

Protective measures

Avoid: Inhalation of vapours or spray/mists Skin contact Eye contact Wear personal protection equipment (refer to section 8). Use only in well-ventilated areas.

Measures to prevent fire

This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment).

Measures to prevent aerosol and dust generation

Ensure adequate ventilation of the storage area.

Environmental precautions

See section 8.

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a cool, well-ventilated place. Avoid heating over 50°C. Ensure adequate ventilation of

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the storage area. Restrict access to stockrooms.

Hints on joint storage

Storage class (TRGS 510) : 10

Keep away from

Strong acid Strong alkali Oxidising agent

Further information on storage conditions

Keep only in the original container in a cool, well-ventilated place.

Protect against : Heat. UV-radiation/sunlight

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. ; CAS No. : 64742-94-5

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 100 mg/m³

Version :

DICYCLOHEXYLAMINE ; CAS No. : 101-83-7

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 0,7 ppm / 5 mg/m³

Peak limitation : 2(II)

Remark : H, Y

Version : 04.11.2017

NAPHTHALENE ; CAS No. : 91-20-3

Limit value type (country of origin) : TRGS 900 (D)

Parameter : E: inhalable fraction

Limit value : 0,1 ppm / 0,5 mg/m³

Peak limitation : 1(I)

Remark : H, Y

Version : 04.11.2017

Limit value type (country of origin) : TWA (EC)

Limit value : 10 ppm / 50 mg/m³

Version : 29.05.1991

1,2,4-TRIMETHYLBENZENE ; CAS No. : 95-63-6

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 20 ppm / 100 mg/m³

Peak limitation : 2(II)

Remark : Y

Version : 04.11.2017

Limit value type (country of origin) : TWA (EC)

Limit value : 20 ppm / 100 mg/m³

Version : 08.06.2000

MESITYLENE ; CAS No. : 108-67-8

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 20 ppm / 100 mg/m³

Peak limitation : 2(II)

Remark : Y

Version : 04.11.2017

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Limit value type (country of origin) : TWA (EC)
Limit value : 20 ppm / 100 mg/m³
Version : 08.06.2000

Recommended monitoring procedures

Method : Test tube

8.2 Exposure controls

Personal protection equipment

None, but avoid breathing vapours if possible. If workplace limits are exceeded, a gas mask approved for this purpose must be worn.

Eye/face protection

Eye glasses with side protection

Suitable eye protection

Use safety glasses.

Required properties

DIN EN 166

Remark

Take the precautions customary when handling chemicals.

Skin protection

Solvent-resistant protective gloves must be worn. Gloves, for example PVC at least 0,8 mm thick. See protective gloves instruction sheet.

Hand protection

Suitable gloves type : Disposable gloves.

Suitable material : PVC (Polyvinyl chloride)

Unsuitable material : Thick fabric

Wearing time with occasional contact (splashes) : 4 hrs

Recommended glove articles : DIN EN 374

Additional hand protection measures : Do not wear gloves near rotary machines and tools. Use gloves only once. Breakthrough times and swelling properties of the material must be taken into consideration. Wear cotton underneath if possible. Take recovery periods for skin regeneration.

Body protection

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Suitable protective clothing : Overall

Recommended material : Natural fibres (e.g. cotton)

Remark : Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values

Suitable respiratory protection apparatus

Combination filtering device (EN 14387) A

Remark

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, self-contained breathing apparatus must be used.

General health and safety measures

Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

Occupational exposure controls

Technical measures to prevent exposure

See section 7. No additional measures necessary.

Environmental exposure controls

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Technical measures to prevent exposure

See section 7. No additional measures necessary.

8.3 Additional information

Preventive industrial medical examinations are to be offered.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : liquid

Colour : light brown

Odour

like: Mineral oil.

Safety relevant basis data

Melting point/melting range :		No data available
Freezing point :		No data available
Initial boiling point and boiling range :	(1013 hPa)	> 160 °C
Decomposition temperature :		No data available
Flash point :		> 61 °C
Ignition temperature :		No data available
Lower explosion limit :		No data available
Upper explosion limit :		No data available
Vapour pressure :	(50 °C)	< 100 hPa
Density :	(20 °C)	< 1 g/cm ³
Water solubility :	(20 °C)	No data available
pH :		No data available
Flow time :	(20 °C)	No data available
Viscosity :	(20 °C)	No data available
Cinematic viscosity :	(40 °C)	< 20,5 mm ² /s
Odour threshold :		No data available
Relative vapour density :	(20 °C)	No data available
Vapourisation rate :		No data available
Flammable aerosols :		No data available.
Oxidising liquids :		No data available.
Explosive properties :		No data available.

DIN-cup 4 mm

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

None, if handled according to order.

10.2 Chemical stability

None, if handled according to order.

10.3 Possibility of hazardous reactions

None, if handled according to order.

10.4 Conditions to avoid

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

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10.5 Incompatible materials

Reaction with oxidizing agents possible.

10.6 Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

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

Acute oral toxicity

Parameter :	LD50 (2,6-DIMETHYLOCT-7-EN-2-OL ; CAS No. : 18479-58-8)
Exposure route :	Oral
Species :	Rat
Effective dose :	3600 mg/kg
Parameter :	LD50 (2,6-DI-TERT-BUTYL-PHENOL ; CAS No. : 128-39-2)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg
Parameter :	LD50 (SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. ; CAS No. : 64742-94-5)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (DICYCLOHEXYLAMINE ; CAS No. : 101-83-7)
Exposure route :	Oral
Species :	Rat
Effective dose :	373 mg/kg
Parameter :	LD50 (NAPHTHALENE ; CAS No. : 91-20-3)
Exposure route :	Oral
Species :	Rat
Effective dose :	490 mg/kg

Acute dermal toxicity

Parameter :	LD50 (2,6-DIMETHYLOCT-7-EN-2-OL ; CAS No. : 18479-58-8)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 5000 mg/kg
Parameter :	LD50 (2,6-DI-TERT-BUTYL-PHENOL ; CAS No. : 128-39-2)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 10000 mg/kg
Parameter :	LD50 (DICYCLOHEXYLAMINE ; CAS No. : 101-83-7)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	200 - 316 mg/kg

Acute inhalation toxicity

Parameter :	LC50 (DICYCLOHEXYLAMINE ; CAS No. : 101-83-7)
Exposure route :	Inhalative (vapour)
Species :	Rat
Effective dose :	> 2,1 mg/l
Exposure time :	4 h

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Irritant and corrosive effects

Primary irritation to the skin

Causes skin irritation.

Irritation to eyes

Causes serious eye irritation.

Sensitisation

May cause an allergic skin reaction.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No information available.

Germ cell mutagenicity

No information available.

Reproductive toxicity

No information available.

STOT-single exposure

No information available.

STOT-repeated exposure

No information available.

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2 Additional information

Inhalation/eye contact: in high concentrations irritating to the mucous membranes, narcotic effect and influence on power of reaction and loss of coordination possible.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Toxic to aquatic life with long lasting effects.

Acute (short-term) fish toxicity

Parameter : LC50 (SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. ; CAS No. : 64742-94-5)
Species : Acute (short-term) fish toxicity
Effective dose : > 10 mg/l

Parameter : LC50 (SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. ; CAS No. : 64742-94-5)
Species : Acute (short-term) daphnia toxicity
Effective dose : > 10 mg/l

Parameter : LC50 (SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. ; CAS No. : 64742-94-5)
Species : Acute (short-term) algae toxicity
Effective dose : > 10 mg/l

Acute (short-term) algae toxicity

Parameter : EC50 (2,6-DI-TERT-BUTYL-PHENOL ; CAS No. : 128-39-2)
Species : Daphnia pulex (water flea)
Effective dose : > 0,45 mg/l
Exposure time : 48 h

12.2 Persistence and degradability

The product is difficult to biologically degrade. May be separated mechanically in purification plants.

12.3 Bioaccumulative potential

May accumulate in organisms.

12.4 Mobility in soil

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No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

Do not empty into waters or drains.

Additional information

Product may not be released into water without pre-treatment (biological sewage plant).

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

Waste code product List of proposed waste codes/waste designations in accordance with AVV

Waste treatment options

Appropriate disposal / Product

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

SECTION 14: Transport information

14.1 UN number

UN 3082

14.2 UN proper shipping name

Land transport (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,6-DI-TERT-BUTYL-PHENOL · DICYCLOHEXYLAMINE)

Sea transport (IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,6-DI-TERT-BUTYL-PHENOL · DICYCLOHEXYLAMINE · N,N-BIS(2-ETHYLHEXYL)-((1,2,4-TRIAZOL-1-YL)METHYL)AMINE · NAPHTHALENE)

Air transport (ICAO-TI / IATA-DGR)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,6-DI-TERT-BUTYL-PHENOL · DICYCLOHEXYLAMINE)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 9
Classification code : M6
Hazard identification number (Kemler No.) : 90
Special provisions : LQ 5 I · E 1 · ADR : - (SP 375 <= 5 I / 5 kg)
Hazard label(s) : 9 / N

Sea transport (IMDG)

Class(es) : 9
EmS-No. : F-A / S-F
Special provisions : LQ 5 I · E 1 · IMDG : - (SP 2.10.2.7 <= 5 I/kg)
Hazard label(s) : 9 / N

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Air transport (ICAO-TI / IATA-DGR)

Class(es) : 9
Special provisions : E 1 · IATA : - (SP A197 <= 5 l / 5 kg)
Hazard label(s) : 9 / N

14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID) : Yes
Sea transport (IMDG) : Yes (P)
Air transport (ICAO-TI / IATA-DGR) : Yes

14.6 Special precautions for user

None

SECTION 15: Regulatory information

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

National regulations

Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 5 %

Water hazard class (WGK)

Class : 2 (Hazardous to water) Classification according to VwVwS

Other regulations, restrictions and prohibition regulations

No flammable liquid according to BetrSichV.

15.2 Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Indication of changes

- 02.01. Classification according to Regulation (EC) No 1272/2008 [CLP] - Skin Sens.
- 02.01. Classification according to Regulation (EC) No 1272/2008 [CLP] - Repr.
- 02.02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling
- 02.02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard statements
- 02.02. Supplemental Hazard information (EU)
- 03. Hazardous ingredients
- 07. Hints on joint storage - Storage class
- 11. Reproductive toxicity

16.2 Abbreviations and acronyms

EAK: Europäischer Abfallartenkatalog (EWC: European Waste Catalogue)
AVV: Abfallverzeichnisverordnung (List of waste regulation)
TRGS: Technische Regeln für Gefahrstoffe (Technical Rules on Hazardous Substances)
VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe (Administrative Regulation of substances hazardous to water)
ADR: Accord européen relatif le transport des marchandises dangereuses par Route (European agreement concerning the international carriage of dangerous goods by road)
IMDG: International Maritime Dangerous Goods Code
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstract Service (Division of the American Chemical Society)

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DNEL: Derived No Effect Level (REACH)
PNEC: Predicted No Effect Concentration (REACH)
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
See overview table at www.euphrac.eu.

16.3 Key literature references and sources for data

None

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

Calculation method.

16.5 Relevant H- and EUH-phrases (Number and full text)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
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.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.