

Safety Data Sheet

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



Trade name : Poly Strip 100
Revision date : 09.02.2023
Print date : 13.02.2023

Version (Revision) : 2.0.2 (2.0.1)

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

1.1 Product identifier

Poly Strip 100

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

Relevant identified uses

PC 35 - Washing and cleaning products

Sectors of use [SU]

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Industrial uses

1.3 Details of the supplier of the safety data sheet

Supplier

Bio-Circle Surface Technology AG

Street : Aahusweg 16

Postal code/City : 6403 Küssnacht am Rigi

Telephone : 0041 41 878 1166

Telefax : 0041 41 878 1347

Information contact : service@bio-circle.ch

1.4 Emergency telephone number

+41 (0)442515151

Schweizerisches Toxikologisches Informationszentrum, 145

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Acute Tox. 4 ; H302 - Acute toxicity (oral) : Category 4 ; Harmful if swallowed.

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

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

2.2 Label elements

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

Hazard pictograms



Exclamation mark (GHS07)

Signal word

Warning

Hazard components for labelling

1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2

Hazard statements

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

P270 Do not eat, drink or smoke when using this product.

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

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P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/....
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

1-butylpyrrolidin-2-one ; REACH No. : 01-2120062728-48-XXXX ; EC No. : 222-437-8; CAS No. : 3470-98-2

Weight fraction : $\geq 25 - < 50 \%$

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

DIMETHYL SUCCINATE ; REACH No. : 01-2119486681-29-XXXX ; EC No. : 203-419-9; CAS No. : 106-65-0

Weight fraction : $\geq 5 - < 10 \%$

Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

Further ingredients

DIMETHYL GLUTARATE ; EC No. : 214-277-2; CAS No. : 1119-40-0

Weight fraction : $\geq 25 - < 30 \%$

DIMETHYL ADIPATE ; EC No. : 211-020-6; CAS No. : 627-93-0

Weight fraction : $\geq 5 - < 10 \%$

Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation

Remove casualty to fresh air and keep warm and at rest.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

After eye contact

Protect uninjured eye. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion

Rinse mouth thoroughly with water. Let 1 glass of water be drunken in little sips (dilution effect). Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation. Causes serious eye irritation. Ingestion causes nausea, weakness and central nervous system effects.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

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5.1 Extinguishing media

Suitable extinguishing media

Water Foam Extinguishing powder Carbon dioxide (CO₂) Sand Nitrogen Extinguishing blanket

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

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

5.3 Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Special protective equipment for firefighters

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

5.4 Additional information

Fire transmission possible. Move undamaged containers from immediate hazard area if it can be done safely. Coordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Special danger of slipping by leaking/spilling product.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

Clear spills immediately. Wipe up with absorbent material (eg. cloth, fleece). Wash with plenty of water. Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep container tightly closed. Avoid: generation/formation of aerosols , Generation/formation of mist

7.2 Conditions for safe storage, including any incompatibilities

Keep/Store only in original container. Protect against : Frost .

7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL-/PNEC-values

DNEL/DMEL

1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2

Limit value type :	DNEL Consumer (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	5 mg/kg bw/day

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Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 4,29 mg/m³
Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 4 mg/kg bw/day
Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Short-term
Limit value : 4 mg/kg bw/day
Limit value type : DMEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 10 mg/kg bw/day
Limit value type : DMEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 24,1 mg/m³

PNEC

1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2

Limit value type : PNEC (Aquatic, freshwater)
Limit value : 4 mg/l
Limit value type : PNEC (Aquatic, intermittent release)
Limit value : 1 mg/l
Limit value type : PNEC (Aquatic, marine water)
Limit value : 0,4 mg/l
Limit value type : PNEC (Sediment, freshwater)
Limit value : 20,168 mg/kg dry weight
Limit value type : PNEC (Sediment, marine water)
Limit value : 2,017 mg/kg dry weight
Limit value type : PNEC (Soil)
Limit value : 1,68 mg/kg dry weight
Limit value type : PNEC (Sewage treatment plant)
Limit value : 30,62 mg/l

8.2 Exposure controls

Personal protection equipment

Eye/face protection



Wear suitable safety goggles in case of splash.

Suitable eye protection
EN 166.

Skin protection

Hand protection



Suitable gloves type : EN 374.
Suitable material : NBR (Nitrile rubber)

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Breakthrough time : 480 min.

Thickness of the glove material : 0.4 mm

Remark : 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. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

General information

Do not put any product-impregnated cleaning rags into your trouser pockets. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. P362+P364 - Take off contaminated clothing and wash it before reuse. P264 - Wash hands thoroughly after handling.

8.3 Additional information

No tests have been performed. Selection made for preparations according to the best available knowledge and information on ingredients. In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid

Colour : light yellow

Odour

like: Hydrocarbons, aromatic.

Safety characteristics

Melting point/freezing point :	(1013 hPa)	<	-20 °C	
Initial boiling point and boiling range :	(1013 hPa)	approx.	195 °C	
Flash point :		approx.	100 °C	DIN EN ISO 13736
Auto-ignition temperature :	(1-butylpyrrolidin-2-one)		212 °C	Literature value
Flammability :			flammable	
Lower explosion limit :	(1-butylpyrrolidin-2-one)		0,9 Vol-%	Literature value
Upper explosion limit :	(1-butylpyrrolidin-2-one)		8,7 Vol-%	Literature value
Vapour pressure :	(20 °C)	<	0,2 hPa	Calculated
Density :	(20 °C)		1,02 g/cm ³	
Water solubility :	(20 °C)	>	35 Weight-%	
pH :	(20 °C)		not applicable	
pH :	(20 °C / 5 Vol-%)	approx.	7	in aqueous solution
Cinematic viscosity :	(20 °C)	<	30 mm ² /s	
Relative vapour density :	(20 °C)		not determined	
Maximum VOC content (EC) :			9,5 Weight-%	
Maximum VOC content (Switzerland) :			47 Weight-%	
Taxable VOC content (Switzerland) :			1,1 Weight-%	

9.2 Other information

CH : This product is not under the liability for taxation of VOC acc. VOCV (<= 3 % VOC).

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2 Chemical stability

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The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

prolonged exposure to extreme heat , Ignition hazard.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No known hazardous decomposition products.
Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information

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

Acute toxicity

Acute oral toxicity

Parameter :	ATEmix
Exposure route :	Oral
Effective dose :	1000 - 2000 mg/kg
Parameter :	LD50 (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Exposure route :	Oral
Species :	Rat
Effective dose :	300 - 2000 mg/kg

Acute dermal toxicity

Parameter :	ATEmix
Exposure route :	Dermal
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 2000 mg/kg
Method :	OECD 402

Acute inhalation toxicity

Parameter :	ATEmix
Exposure route :	Inhalation (dust/mist)
Effective dose :	> 5 mg/l
Parameter :	LC50 (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Exposure route :	Inhalation (dust/mist)
Species :	Rat
Effective dose :	> 5,1 mg/l
Exposure time :	4 h
Method :	OECD 403

Corrosion

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Skin sensitisation

No further relevant information available.

Sensitisation to the respiratory tract

No further relevant information available.

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CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No further relevant information available.

Germ cell mutagenicity

No further relevant information available.

Reproductive toxicity

No further relevant information available.

STOT-single exposure

No further relevant information available.

STOT-repeated exposure

No further relevant information available.

Aspiration hazard

No further relevant information available.

11.2 Information on other hazards

Endocrine disrupting properties

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

Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

Other adverse effects

Has degreasing effect on the skin. May be absorbed through the skin.

Additional information

Preparation not tested. The statement is derived from the properties of the single components.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter :	LC50 (DIMETHYL ADIPATE ; CAS No. : 627-93-0)
Species :	Lepomis macrochirus (Bluegill)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	30,9 mg/l
Exposure time :	96 h
Parameter :	LC50 (DIMETHYL GLUTARATE ; CAS No. : 1119-40-0)
Species :	Lepomis macrochirus (Bluegill)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	30,9 mg/l
Exposure time :	96 h
Parameter :	LC50 (DIMETHYL SUCCINATE ; CAS No. : 106-65-0)
Species :	Danio rerio (zebrafish)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	50 - 100 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Species :	Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 100 mg/l
Exposure time :	96 h
Method :	OECD 203

Chronic (long-term) fish toxicity

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Parameter : NOEC (DIMETHYL SUCCINATE ; CAS No. : 106-65-0)
Species : Fish
Evaluation parameter : Chronic (long-term) fish toxicity
Effective dose : 13,9 mg/l
Parameter : NOEC (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Species : Pimephales promelas (fathead minnow)
Evaluation parameter : Chronic (long-term) fish toxicity
Effective dose : 82 mg/l
Exposure time : 33 D
Method : OECD 210

Acute (short-term) toxicity to crustacea

Parameter : EC50 (DIMETHYL ADIPATE ; CAS No. : 627-93-0)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) toxicity to crustacea
Effective dose : 72 mg/l
Exposure time : 48 h
Method : OECD 202
Parameter : EC50 (DIMETHYL GLUTARATE ; CAS No. : 1119-40-0)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) toxicity to crustacea
Effective dose : 112 - 150 mg/l
Exposure time : 48 h
Parameter : EC50 (DIMETHYL SUCCINATE ; CAS No. : 106-65-0)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) toxicity to crustacea
Effective dose : > 100 mg/l
Exposure time : 48 h
Method : OECD 202
Parameter : EC50 (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : > 100 mg/l
Exposure time : 48 h
Method : OECD 202

Chronic (long-term) toxicity to aquatic invertebrate

Parameter : NOEC (DIMETHYL SUCCINATE ; CAS No. : 106-65-0)
Species : Daphnia
Evaluation parameter : Chronic (long-term) toxicity to aquatic invertebrate
Effective dose : 358,6 mg/l
Parameter : NOEC (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 100 mg/l
Exposure time : 21 D
Method : OECD 211

Acute (short-term) toxicity to algae and cyanobacteria

Parameter : EC50 (DIMETHYL ADIPATE ; CAS No. : 627-93-0)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Acute (short-term) toxicity to algae and cyanobacteria
Effective dose : > 100 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : EC50 (DIMETHYL SUCCINATE ; CAS No. : 106-65-0)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Inhibition of growth rate
Effective dose : > 100 mg/l

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Exposure time : 72 h
Method : OECD 201
Parameter : EC50 (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Inhibition of biomass development
Effective dose : 130 mg/l
Exposure time : 72 h
Method : OECD 201

Chronic (long-term) toxicity to aquatic algae and cyanobacteria

Parameter : NOEC (DIMETHYL GLUTARATE ; CAS No. : 1119-40-0)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Inhibition of growth rate
Effective dose : 36 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : NOEC (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Inhibition of growth rate
Effective dose : 40 mg/l
Exposure time : 72 h
Method : OECD 201

Toxicity to microorganisms

Parameter : EC50 (DIMETHYL SUCCINATE ; CAS No. : 106-65-0)
Species : Bacteria toxicity
Effective dose : > 1000 mg/l
Exposure time : 3 h
Method : OECD 209

12.2 Persistence and degradability

The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Biodegradation

Parameter : BOD (% of ThOD) (DIMETHYL GLUTARATE ; CAS No. : 1119-40-0)
Inoculum : Biodegradation
Evaluation parameter : Aerobic
Degradation rate : 70 %
Test duration : 7 D
Method : OECD 301D
Parameter : BOD (% of ThOD) (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Inoculum : Biodegradation
Evaluation parameter : Aerobic
Degradation rate : 0 %
Test duration : 28 D
Evaluation : Not readily biodegradable (according to OECD criteria)
Method : OECD 301D
Parameter : BOD (% of ThOD) (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Inoculum : Biodegradation
Evaluation parameter : Aerobic
Degradation rate : 100 %
Test duration : 56 D
Evaluation : Biodegradable.
Method : OECD 301C
Parameter : BOD (% of ThOD) (DIMETHYL GLUTARATE ; CAS No. : 1119-40-0)
Inoculum : Biodegradation
Evaluation parameter : Aerobic
Degradation rate : > 60 %

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Test duration : 28 D
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301D
Parameter : CO₂ formation (% of the theoretical value) (DIMETHYL SUCCINATE ; CAS No. : 106-65-0)
Inoculum : Biodegradation
Evaluation parameter : Aerobic
Degradation rate : 74,1 %
Test duration : 28 D
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301B
Parameter : DOC reduction (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Inoculum : Biodegradation
Evaluation parameter : Aerobic
Degradation rate : 81 %
Test duration : 112 D
Evaluation : Biodegradable.
Method : OECD 301B
Parameter : DOC reduction (DIMETHYL ADIPATE ; CAS No. : 627-93-0)
Inoculum : Biodegradation
Evaluation parameter : Aerobic
Degradation rate : 97 %
Test duration : 28 D
Evaluation : Readily biodegradable (according to OECD criteria).

12.3 Bioaccumulative potential

Parameter : Partition coefficient n-octanol/water (log value) (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Value : 1,265
No indication of bioaccumulation potential.

12.4 Mobility in soil

Adsorption

Parameter : Adsorption coefficient (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Inoculum : Mobility in soil
Effective dose : 43,2

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 information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Ordinance on the avoidance and disposal of waste (ADWO) SR 814.600.

Before intended use

Waste code according to the lists for the movement of waste

20 01 29S (Detergents containing hazardous substances)

Other disposal recommendations

Dispose of waste according to applicable legislation. Dispose of contents/container to an appropriate recycling or disposal facility. Contaminated packages must be completely emptied and can be re-used following proper cleaning. Handle contaminated packages in the same way as the substance itself.

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13.2 Additional information

The allocation of waste identity numbers/waste descriptions must be carried out according to the VVEA, specific to the industry and process.

SECTION 14: Transport information

14.1 UN number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Use restriction according to REACH annex XVII, no. : 3, 75

Other regulations (EU)

Labelling for contents according to regulation (EC) No. 648/2004

< 5 % cationic surfactants

< 5 % non-ionic surfactants

Contains the following substances: BENZYL ALCOHOL

National regulations

Other regulations, restrictions and prohibition regulations

Switzerland

Chemicals Ordinance, ChemO (SR 813.11)

Chemical Risk Reduction Ordinance, ORRChem (SR 814.81)

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

05. Advice for firefighters - 09. Safety characteristics - 15. Restrictions on use

16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (Europäisches Übereinkommen über die Beförderung gefährlicher Güter auf der Straße)

AOX: adsorbierbare organisch gebundene Halogene

AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen

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CAS: Chemical Abstracts Service (Unterabteilung der American Chemical Society)
CLP: Verordnung (EG) Nr. 1272/2008 über die Einstufung, Kennzeichnung und Verpackung von Stoffen und Gemischen (Classification Labelling and Packaging)
EAK / AVV: europäischer Abfallartenkatalog / Abfallverzeichnis-Verordnung
ECHA: Europäische Chemikalienagentur (European Chemicals Agency)
EINECS: : Altstoffverzeichnis (European Inventory of Existing Commercial Chemical Substances)
GHS: Global harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien (Globally Harmonized System of Classification and Labelling of Chemicals)
IATA: Internationale Luftverkehrs-Vereinigung (International Air Transport Association)
ICAO: Internationale Zivilluftfahrtorganisation (International Civil Aviation Organization)
IMDG: Gefahrgutkennzeichnung für gefährliche Güter im Seeschiffverkehr (International Maritime Code for Dangerous Goods)
RID: Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr (Règlement concernant le transport international ferroviaire de marchandises dangereuses)
TRGS: Technische Regel für den Umgang mit Gefahrstoffen
VbF: Verordnung über brennbare Flüssigkeiten
VOC: flüchtige organische Verbindung (volatile organic compound)
VVEA: Verordnung über die Vermeidung und die Entsorgung von Abfällen
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe
WGK: Wassergefährdungsklasse

16.3 Key literature references and sources for data

DGUV: GESTIS-Stoffdatenbank
ECHA: Classification And Labelling Inventory
ECHA: Pre-registered Substances
ECHA: Registered Substances
EC_Safety Data Sheet of Suppliers
ESIS: European Chemical Substances Information System
GDL: Gefahrstoffdatenbank der Länder
UBA Rigoletto: Wassergefährdende Stoffe
Regulation (EC) No. 1907/2006 of the European Parliament and of the Council
Regulation (EC) No. 1272/2008 of the European Parliament and of the Council

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].
Evaluation :
Acute Tox. 4 : Calculation method.
Skin Irrit. 2 : Calculation method.
Eye Irrit. 2 : Calculation method.

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

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

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.