

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Best-Aktiv C Spray**

Print date: 21.02.2018

Product code:

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Best-Aktiv C Spray

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

Washing and cleaning products (including solvent based products)

**Uses advised against**

any non-intended use.

**1.3. Details of the supplier of the safety data sheet**

Company name:	Best Klebstoffe GmbH & Co. KG	
Street:	Gewerbestraße 10-14	
Place:	D-86981 Kinsau	
Telephone:	+49 (0)08869 91384-0	Telefax: +49 (0)08869 91384-15
e-mail:	info@bestklebstoffe.de	
Internet:	www.bestklebstoffe.de	
Responsible Department:	Best Klebstoffe GmbH & Co. KG Heiko Best Gewerbestraße 10-14 86981 Kinsau	e-mail: info@bestklebstoffe.de Tel.: +49 (0)8869 91384-0 www.bestklebstoffe.de

**1.4. Emergency telephone number:** +49 (0)08869 91384-0 (08:00 - 17:00)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard categories:

Aerosol: Aerosol 1

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

Causes serious eye irritation.

May cause drowsiness or dizziness.

**2.2. Label elements****Hazardous components which must be listed on the label**

acetone; propan-2-one; propanone

Signal word: Danger

Pictograms: GHS02-GHS07

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### Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

### Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P312	Call a POISON CENTER/doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### Special labelling of certain mixtures

EUH066	Repeated exposure may cause skin dryness or cracking.
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### 2.3. Other hazards

In use, may form flammable/explosive vapour-air mixture.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

EC No	Chemical name	Quantity
CAS No		
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
204-065-8	dimethyl ether	50- < 80 %
115-10-6		
603-019-00-8	Flam. Gas 1; H220	
200-662-2	acetone; propan-2-one; propanone	20 - < 40 %
67-64-1		
606-001-00-8	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066	
202-805-4	N,N-dimethyl-p-toluidine	0,1 - <1 %
99-97-8		
612-056-00-9	Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT RE 2, Aquatic Chronic 3; H331 H311 H301 H373 ** H412	

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

### Further Information

Product does not contain listed SVHC substances.

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**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After inhalation**

Remove casualty to fresh air and keep warm and at rest. In case of breathing difficulties administer oxygen. In case of respiratory tract irritation, consult a physician.

**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**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

**After ingestion**

Caution if victim vomits: Risk of aspiration! Rinse mouth thoroughly with water. Immediately call a doctor. Let water be drunk in little sips (dilution effect). Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps.

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

No information available.

**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**

Water spray. Foam. Carbon dioxide. Extinguishing powder. Dry extinguishing powder. alcohol resistant foam.

**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**

Combustible. Vapours may form explosive mixtures with air. Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>).

**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. In case of fire and/or explosion do not breathe fumes.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Remove persons to safety. Vapours are heavier than air and will spread at floor level.

Wear personal protection equipment. (See section 8.)

Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes.

**6.2. Environmental precautions**

Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to

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enter into surface water or drains.

#### **6.3. Methods and material for containment and cleaning up**

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

Ventilate affected area.

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

#### **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**

##### **Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Do not spray on naked flames or any incandescent material.

Personal protection equipment: see section 8

##### **Advice on protection against fire and explosion**

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

Heating causes rise in pressure with risk of bursting. In use, may form flammable/explosive vapour-air mixture. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.

##### **Further information on handling**

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

General protection and hygiene measures: refer to chapter 8

#### **7.2. Conditions for safe storage, including any incompatibilities**

##### **Requirements for storage rooms and vessels**

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

Ensure adequate ventilation of the storage area.

Please note: Technische Regeln Druckbehälter (TRB), Technische Regeln Druckgase (TRG): 300 aerosol directive (75/324/EEC).

##### **Advice on storage compatibility**

Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures.

Substances and mixtures which, in contact with water, emit flammable gases. Oxidizing liquids. Oxidizing

solids. Self-reactive substances and mixtures. Organic peroxides. Radioactive substances. Infectious substances.

##### **Further information on storage conditions**

Recommended storage temperature: 10-30°C Do not store at temperatures over: 50°C

#### **7.3. Specific end use(s)**

refer to chapter 1.

### **SECTION 8: Exposure controls/personal protection**

#### **8.1. Control parameters**

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### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		STEL (15 min)	WEL
115-10-6	Dimethyl ether	400	766		TWA (8 h)	WEL
		500	958		STEL (15 min)	WEL

### 8.2. Exposure controls



#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Protective and hygiene measures

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Protect skin by using skin protective cream.

#### Eye/face protection

Suitable eye protection: Tightly sealed safety glasses. DIN EN 166

#### Hand protection

Pull-over gloves of rubber. DIN EN 374

Suitable material:

(penetration time (maximum wearing period):  $\geq 4$  h):

Butyl rubber. (0,5 mm)

In the case of wanting to use the gloves again, clean them before taking off and air them well. Before using check leak tightness / impermeability.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### Skin protection

Wear fire/flame resistant/retardant clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

#### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

exceeding exposure limit values

aerosol or mist formation

Generation/formation of mist

Suitable respiratory protective equipment: Protective respiration apparatus not using surrounding air (breathing apparatus) (DIN EN 133).

Use only respiratory protection equipment with CE-symbol including four digit test number.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:

Aerosol

Colour:

colourless

Odour:

characteristic

Test method

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pH-Value: N/A

**Changes in the physical state**

Initial boiling point and boiling range: &lt; 0 °C

Flash point: &lt; 0 °C

Lower explosion limits: 2,7 (dimethyl ether)

Upper explosion limits: 32 (dimethyl ether)

Decomposition temperature: not determined

**Oxidizing properties**

none

Vapour pressure: not determined

Density: 0,70 g/cm<sup>3</sup>

Water solubility: insoluble

Viscosity / dynamic: not determined

**9.2. Other information**

No information available.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No information available.

**10.2. Chemical stability**

Stable under normal storage and handling conditions.

**10.3. Possibility of hazardous reactions**

Reacts with : Hydrogen peroxide, bromine trifluoride, Difluordioxid, 2-methyl-1,3-butadiene, nitromethane, nitrosyl chloride (catalyst), Nitrosylperchlorat, alkali hydroxide, bromine, fluorine, sodium, strong reducing agents, nitric acid, chromic acid, chromium trioxide, chromyl chloride, ethanolamine, Potassium tert-butoxide. Oxidizing agents, strong.

**10.4. Conditions to avoid**

Ignition hazard. Keep away from heat. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children. Take precautionary measures against static discharge. See protective measures under point 7 and 8.

**10.5. Incompatible materials**

Hydrogen peroxide, bromine trifluoride, Difluordioxid, 2-methyl-1,3-butadiene, nitromethane, nitrosyl chloride (catalyst), Nitrosylperchlorat, alkali hydroxide, bromine, fluorine, sodium, strong reducing agents, nitric acid, chromic acid, chromium trioxide, chromyl chloride, ethanolamine, Potassium tert-butoxide. Oxidizing agents, strong.

**10.6. Hazardous decomposition products**

In use, may form flammable/explosive vapour-air mixture. Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>).

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Toxicocinetics, metabolism and distribution**

No information available.

**Acute toxicity**

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

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CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
115-10-6	dimethyl ether				
	inhalative (4 h) gas	LC50	164000 ppm	Rat	ECHA Dossier
67-64-1	acetone; propan-2-one; propanone				
	oral	LD50	5800 mg/kg	Rat	ECHA Dossier
	dermal	LD50	7400 mg/kg	Rabbit	ECHA Dossier
	inhalative (4 h) vapour	LC50	50,1 mg/l	Rat	RTECS
99-97-8	N,N-dimethyl-p-toluidine				
	oral	ATE	100 mg/kg		
	dermal	LD50	>2000 mg/kg	Rat	ECHA Dossier
	inhalative (4 h) vapour	LC50	1,4 mg/l	Rat	GESTIS
	inhalative aerosol	ATE	0,5 mg/l		

#### Irritation and corrosivity

Causes serious eye irritation.

#### Sensitising effects

 Based on available data, the classification criteria are not met.  
 No information available.

#### STOT-single exposure

May cause drowsiness or dizziness. (acetone; propan-2-one; propanone)

#### Severe effects after repeated or prolonged exposure

 Repeated exposure may cause skin dryness or cracking.  
 acetone; propan-2-one; propanone:  
 Subchronic oral toxicity (Mouse.) NOAEL = 20000 ppm  
 literature information: ECHA Dossier

 dimethyl ether:  
 Chronic inhalative toxicity: NOAEL = 47106 mg/m<sup>3</sup> (Rat)  
 OECD Guideline 452  
 literature information: ECHA Dossier

#### Carcinogenic/mutagenic/toxic effects for reproduction

 Based on available data, the classification criteria are not met.  
 acetone; propan-2-one; propanone:  
 No experimental indications of mutagenicity in-vitro exist.  
 Developmental toxicity/teratogenicity (Rat) NOAEL = 11000 ppm  
 literature information: ECHA Dossier

 dimethyl ether:  
 Developmental toxicity/teratogenicity: NOAEL = 5000 ppm  
 No experimental indications of mutagenicity in-vivo exist.  
 literature information: ECHA Dossier

#### Aspiration hazard

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

#### Specific effects in experiment on an animal

No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity



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CAS No	Chemical name				
	Aquatic toxicity	Method	Dose	[h]   [d]	Species
115-10-6	dimethyl ether				
	Acute fish toxicity	LC50	>4100 mg/l	96 h	Poecilia reticulata
	Acute crustacea toxicity	EC50	>4400 mg/l	48 h	Daphnia magna
67-64-1	acetone; propan-2-one; propanone				
	Acute fish toxicity	LC50	5540 mg/l	96 h	Onchorhynchus mykiss
	Acute crustacea toxicity	EC50	8800 mg/l	48 h	Daphnia pulex
99-97-8	N,N-dimethyl-p-toluidine				
	Acute fish toxicity	LC50	46-53 mg/l	96 h	Pimephales promelas
					GESTIS

### 12.2. Persistence and degradability

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
115-10-6	dimethyl ether			
	OECD 301D / EEC 92/69 annex V, C.4-E	5%	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			
67-64-1	acetone; propan-2-one; propanone			
	OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C	90	28	ECHA Dossier
	Product is biodegradable.			

### 12.3. Bioaccumulative potential

No information available.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
115-10-6	dimethyl ether	0,07
67-64-1	acetone; propan-2-one; propanone	-0,24
99-97-8	N,N-dimethyl-p-toluidine	2,81

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

### 12.6. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to EAKV:

#### Waste disposal number of waste from residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances  
 Classified as hazardous waste.



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**Waste disposal number of used product**

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances  
Classified as hazardous waste.

**Waste disposal number of 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 dangerous substances  
Classified as hazardous waste.

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
Hazard label: 2.1



Classification code: 5F  
Special Provisions: 190 327 344 625  
Limited quantity: 1 L  
Excepted quantity: E0  
Transport category: 2  
Tunnel restriction code: D

**Other applicable information (land transport)**

Excepted quantity: E0

**Inland waterways transport (ADN)**

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
Hazard label: 2.1



Classification code: 5F  
Special Provisions: 190 327 344 625  
Limited quantity: 1 L  
Excepted quantity: E0

**Other applicable information (inland waterways transport)**

Excepted quantity: E0

**Marine transport (IMDG)**

**14.1. UN number:** UN 1950

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**14.2. UN proper shipping name:** AEROSOLS

**14.3. Transport hazard class(es):** 2.1

**14.4. Packing group:** -

Hazard label: 2.1



Marine pollutant: NO

Special Provisions: 63, 190, 277, 327, 344, 959

Limited quantity: 1000 mL

Excepted quantity: E0

EmS: F-D, S-U

**Other applicable information (marine transport)**

Excepted quantity: E0

**Air transport (ICAO)**

**14.1. UN number:** UN 1950

**14.2. UN proper shipping name:** AEROSOLS, flammable

**14.3. Transport hazard class(es):** 2.1

**14.4. Packing group:** -

Hazard label: 2.1



Special Provisions: A145 A167 A802

Limited quantity Passenger: 30 kg G

Passenger LQ: Y203

Excepted quantity: E0

IATA-packing instructions - Passenger: 203

IATA-max. quantity - Passenger: 75 kg

IATA-packing instructions - Cargo: 203

IATA-max. quantity - Cargo: 150 kg

**Other applicable information (air transport)**

Excepted quantity: E0

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

refer to chapter 6-8

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

not relevant

## SECTION 15: Regulatory information

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

**EU regulatory information**

2010/75/EU (VOC): 100 % (calculated.)

2004/42/EC (VOC): 700 g/l (calculated.)

**Additional information**

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This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].  
Directive 96/82/EC for danger control following severe accidents with dangerous substances: Appendix I,  
Part 2, No 8 (Seveso II)  
Observe in addition any national regulations!

**National regulatory information**

Employment restrictions: Observe employment restrictions for young people.  
Water contaminating class (D): 2 - water contaminating

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****Changes**

Rev. 1.00; 12.12.2011, Initial release  
Rev. 1.10; 21.04.2015, Changes in chapter: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.  
Rev. 1.20, 21.02.2020

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
CAS Chemical Abstracts Service  
DNEL: Derived No Effect Level  
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
LOAEL: Lowest observed adverse effect level  
LOAEC: Lowest observed adverse effect concentration  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
NOAEL: No observed adverse effect level  
NOAEC: No observed adverse effect level  
NTP: National Toxicology Program  
N/A: not applicable  
OSHA: Concerning the International Transport of Dangerous Goods by Rail)  
PNEC: predicted no effect concentration  
PBT: Persistent bioaccumulative toxic  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )  
SARA: Superfund Amendments and Reauthorization Act  
SVHC: substance of very high concern  
TRGS Technische Regeln für Gefahrstoffe  
TSCA: Toxic Substances Control Act  
VOC: Volatile Organic Compounds  
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe  
WGK: Wassergefährdungsklasse

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|----|---|
| 52 | Harmful to aquatic organisms.                                   |
| 53 | May cause long-term adverse effects in the aquatic environment. |
| 66 | Repeated exposure may cause skin dryness or cracking.           |
| 67 | Vapours may cause drowsiness and dizziness.                     |

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

- |        |  |
|--------|--|
| H220   | Extremely flammable gas.   |
| H222   | Extremely flammable aerosol.                                       |
| H225   | Highly flammable liquid and vapour.                                |
| H229   | Pressurised container: May burst if heated.                        |
| H301   | Toxic if swallowed.  |
| H311   | Toxic in contact with skin.  |
| H319   | Causes serious eye irritation.                                     |
| H331   | Toxic if inhaled.  |
| H336   | May cause drowsiness or dizziness.                                 |
| H373   | May cause damage to organs through prolonged or repeated exposure. |
| H412   | Harmful to aquatic life with long lasting effects.                 |
| EUH066 | Repeated exposure may cause skin dryness or cracking.              |

**Further Information**

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.

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