

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### BEST – MK 1531

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

##### 1.1. Product identifier

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

###### Use of the substance/mixture

Adhesives, sealants

###### Uses advised against

none/none

##### 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)8869-91384-0	Telefax: +49 (0)8869-91384-15
e-mail:	info@bestklebstoffe.de	
Internet:	www.bestklebstoffe.de	
Responsible Department:	Dr. Timo Gans-Eichler Chemieberatung Raesfeldstr. 22 48149 Münster	e-mail: tge-consult@t-online.de Tel.: +49 (0)251/924520-60 www.tge-consult.de

##### 1.4. Emergency telephone number:

+49 (0)8869-91384-0 (08:00 - 17:00)

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

Indications of danger: Xi - Irritant, N - Dangerous for the environment

R phrases:

Irritating to eyes, respiratory system and skin.

May cause sensitisation by skin contact.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

###### GHS classification

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory/skin sensitization: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

May cause respiratory irritation.

Toxic to aquatic life with long lasting effects.

##### 2.2. Label elements

###### Hazardous components which must be listed on the label

methacrylic acid, monoester with propane-1,2-diol

2-methylpropenoic acid, methacrylic acid

cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide

maleic acid

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Signal word:

Danger

Pictograms:

GHS05-GHS07-GHS09



#### Hazard statements

- |      |  |
|------|--|
| H315 | Causes skin irritation.                          |
| H317 | May cause an allergic skin reaction.             |
| H318 | Causes serious eye damage.                       |
| H335 | May cause respiratory irritation.                |
| H411 | Toxic to aquatic life with long lasting effects. |

#### Precautionary statements

- |                |  |
|----------------|--|
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P363           | Wash contaminated clothing before reuse.   |
| P273           | Avoid release to the environment.  |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P310           | Immediately call a POISON CENTER or doctor/physician.  |
| P501           | Dispose of contents/container to disposal according to official regulations .  |

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

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#### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
221-950-4	propylidynetrimethyl trimethacrylate	80 - 85 %
3290-92-4	N - Dangerous for the environment R51-53	
	Aquatic Chronic 2; H411	
248-666-3	methacrylic acid, monoester with propane-1,2-diol	5 - 10 %
27813-02-1	Xi - Irritant R36-43	
	Eye Irrit. 2, Skin Sens. 1; H319 H317	
201-204-4	2-methylpropenoic acid, methacrylic acid	1 - 5 %
79-41-4	C - Corrosive, Xn - Harmful R21/22-35	
607-088-00-5	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A; H312 H302 H314	
201-254-7	cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide	1 - 5 %
80-15-9	O - Oxidizing, T - Toxic, C - Corrosive, Xn - Harmful, N - Dangerous for the environment R7-23-21/22-48/20/22-34-51-53	
617-002-00-8	Org. Perox. E, Acute Tox. 3, Acute Tox. 4, Acute Tox. 4, STOT RE 2, Skin Corr. 1B, Aquatic Chronic 2; H242 H331 H312 H302 H373 ** H314 H411	
204-055-3	2'-Phenylacetohydrazide	< 1 %
114-83-0	Xn - Harmful, Xi - Irritant R22-36/37/38-43	
	Acute Tox. 3, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3; H301 H315 H319 H317 H335	
202-704-5	cumene	< 1 %
98-82-8	Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R10-65-37-51-53	
601-024-00-X	Flam. Liq. 3, Asp. Tox. 1, STOT SE 3, Aquatic Chronic 2; H226 H304 H335 H411	
203-742-5	maleic acid	< 1 %
110-16-7	Xn - Harmful, Xi - Irritant R22-36/37/38-43	
607-095-00-3	Acute Tox. 4, Eye Irrit. 2, STOT SE 3, Skin Irrit. 2, Skin Sens. 1; H302 H319 H335 H315 H317	

Full text of R and H phrases: see Section 16.

#### Further Information

Product does not contain listed SVHC substances.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

##### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of allergic symptoms especially in the breathing area, seek medical advice immediately.

##### After contact with skin

After contact with skin, wash immediately with: Water and soap. In case of skin irritation, seek medical treatment.

##### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding

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eyelids apart. Subsequently consult an ophthalmologist.

#### After ingestion

Rinse mouth thoroughly with water. Let water be swallowed in little sips (dilution effect). In all cases of doubt, or when symptoms persist, seek medical advice.

#### **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.

##### **Extinguishing media which must not be used for safety reasons**

High power water jet.

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

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**

In case of fire and/or explosion do not breathe fumes. Wear a self-contained breathing apparatus and chemical resistant suit.

#### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Extinguishing materials should be selected according to the surrounding area.

### SECTION 6: Accidental release measures

#### **6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Provide adequate ventilation.

Do not breathe gas/vapour/spray.

#### **6.2. Environmental precautions**

Do not empty into drains or the aquatic environment. Prevent spreading over great surfaces (e.g. by damming or installing oil booms).

#### **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).

Treat the assimilated material according to the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

### SECTION 7: Handling and storage

#### **7.1. Precautions for safe handling**

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

Wear suitable protective clothing. ( Refer to chapter 8. )

Do not breathe gas/vapour/spray.

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

Usual measures for fire prevention.

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

Avoid contact with skin, eye and clothing.

#### **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. Keep container dry.

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#### Advice on storage compatibility

Do not store together with: Oxidizing solids. Oxidizing liquids. Explosives. Food and fodder.

#### Further information on storage conditions

Protect against: Light. UV-radiation/sunlight. heat. cooling moisture.

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

Adhesives, sealants

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
98-82-8	Cumene	25	125		TWA (8 h)	WEL
		50	250		STEL (15 min)	WEL
79-41-4	Methacrylic acid	20	72		TWA (8 h)	WEL
		40	143		STEL (15 min)	WEL

#### 8.2. Exposure controls



##### Occupational exposure controls

In case of open handling, use devices with built-in suction where possible. If suction of the immediate vicinity is impossible or insufficient, adequate airing of the working place must be ensured.

##### Protective and hygiene measures

Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Remove contaminated clothing immediately and dispose off safely. Wash contaminated clothing prior to re-use. Used working clothes should not be used outside the work area. Street clothing should be stored separately from work clothing.

##### Respiratory protection

Respiratory protection required in case of:

exceeding critical value

Generation/formation of aerosols

Generation/formation of mist

Suitable respiratory protective equipment:

Combination filter device (DIN EN 141).. Type : A -P2/P3

##### Hand protection

Pull-over gloves of rubber. DIN EN 374

Suitable material:

(penetration time (maximum wearing period): &gt;= 8h)

Butyl rubber. (0,5 mm)

FKM (fluororubber). (0,4 mm)

CR (polychloroprenes, Chloroprene rubber). (0,5 mm)

Before using check leak tightness / impermeability. In case of reutilization, clean gloves before taking off and store in well-aired place.

Protect skin by using skin protective cream.

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#### Eye protection

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

#### Skin protection

Suitable protection of the body: Lab apron.

#### Environmental exposure controls

Do not empty into drains.

### SECTION 9: Physical and chemical properties

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

Physical state:	liquid
Colour:	green
Odour:	characteristic

#### Test method

pH-Value:	n/a
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#### Changes in the physical state

Melting point:	not determined
Boiling point:	not determined
Flash point:	not determined

#### Explosive properties

none/none

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	not determined

#### Oxidizing properties

none/none

Vapour pressure:	not determined
Water solubility:	not determined
Viscosity / dynamic:	300 mPa·s

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Hazardous polymerization: Protect from direct sunlight. Can polymerise exothermically if heated, exposed to air, sunlight or by addition of free radical initiators.

#### 10.2. Chemical stability

Stable under normal storage and handling conditions.

#### 10.3. Possibility of hazardous reactions

No information available.

#### 10.4. Conditions to avoid

Protect against: Light. UV-radiation/sunlight. heat. cooling moisture.

#### 10.5. Incompatible materials

Materials to avoid: Strong acid. Oxidizing agents, strong. Alkalis (alkalis), concentrated. amines. Peroxides.

#### 10.6. Hazardous decomposition products

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>).

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#### Further information

No information available.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Toxicokinetics, metabolism and distribution

No information available.

##### Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
3290-92-4	propylidynetrimethyl trimethacrylate				
	oral	LD50	>2000 mg/kg	Rat.	Echa dossier
	dermal	LD50	>2000 mg/kg	Rabbit.	Echa dossier
27813-02-1	methacrylic acid, monoester with propane-1,2-diol				
	oral	LD50	6162 mg/kg	Rat.	
79-41-4	2-methylpropenoic acid, methacrylic acid				
	oral	LD50	1320-2260 mg/kg	Rat.	
	dermal	ATE	1100 mg/kg		
80-15-9	cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide				
	oral	LD50	382 mg/kg	Rat.	IUCLID
	dermal	LD50	500 mg/kg	Rat.	RTECS
	inhalative (4 h) vapour	LC50	(200) mg/l	Mouse.	IUCLID
	inhalative (0 h) aerosol	ATE	0,5 mg/l		
114-83-0	2'-Phenylacetohydrazide				
	oral	LD50	270 mg/kg	Mouse.	
98-82-8	cumene				
	oral	LD50	1400 mg/kg	Rat.	
	dermal	LD50	12300 mg/kg	Rabbit	IUCLID
	inhalative (4 h) vapour	LC50	39 mg/l	Rat	RTECS
110-16-7	maleic acid				
	oral	LD50	708 mg/kg	Rat.	

##### Specific effects in experiment on an animal

No information available.

##### Irritation and corrosivity

Irritant effect on the eye: irritant.

Irritant effect on the skin: irritant.

##### Sensitising effects

Respiratory or skin sensitisation:

People who suffer from skins problems, asthma, allergies, chronic or recurring respiratory illnesses must not be deployed in processes, which use this substance.

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#### Severe effects after repeated or prolonged exposure

cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide:  
Subchronic inhalative toxicity (90d) Rat. NOAEC = 31 mg/m<sup>3</sup>  
cumene:  
Subchronic inhalative toxicity (90d) Rat. NOAEC = 125 ppm  
methacrylic acid, monoester with propane-1,2-diol:  
Subacute inhalative toxicity: NOAEL = 0,5 mg/l (21d) Rat.  
propylidynetrimethyl trimethacrylate:  
NOAEL > 900 mg/kg (Rat., OECD Guideline 422)

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

cumene:  
No experimental indications of mutagenicity in-vitro exist.  
cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide:  
There is Evidence for: In-vitro mutagenicity  
methacrylic acid, monoester with propane-1,2-diol:  
No experimental indications of mutagenicity in-vivo exist.  
propylidynetrimethyl trimethacrylate:  
In-vitro mutagenicity: positive./negative.  
In-vivo mutagenicity: negative.  
maleic acid:  
In-vitro mutagenicity: negative.

#### Additional information on tests

No information available.

### SECTION 12: Ecological information



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#### 12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	h	Species	Source
3290-92-4	propylidynetrimethyl trimethacrylate					
	Acute fish toxicity	LC50	2 mg/l	96	Oncorhynchus mykiss	Echa dossier
	Acute algae toxicity	ErC50	3.88 mg/l	72	Pseudokirchnerella subcapitata	Echa dossier
	Acute crustacea toxicity	EC50	9,22 mg/l	48	daphnia magna	Echa dossier
27813-02-1	methacrylic acid, monoester with propane-1,2-diol					
	Acute fish toxicity	LC50	833 mg/l	96	Scophthalmus maximus	
	Acute crustacea toxicity	EC50	>130 mg/l	48	daphnia magna	
79-41-4	2-methylpropenoic acid, methacrylic acid					
	Acute fish toxicity	LC50	85 mg/l	96	Oncorhynchus mykiss	
	Acute crustacea toxicity	EC50	>130 mg/l	48	Daphnia magna	
80-15-9	cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide					
	Acute fish toxicity	LC50	3,9 mg/l	96	rainbow trout	
	Acute crustacea toxicity	EC50	18,84 mg/l	48	Daphnia magna	
98-82-8	cumene					
	Acute fish toxicity	LC50	4,8 mg/l	96	Oncorhynchus mykiss	
	Acute algae toxicity	ErC50	1,88-2,15 mg/l	72	Desmodesmus subspicatus	
110-16-7	maleic acid					
	Acute fish toxicity	LC50	106 mg/l	96	Leucisus idus	
	Acute crustacea toxicity	EC50	316 mg/l	48	Daphnia magna	

#### 12.2. Persistence and degradability

cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide:

OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C (28 d) = 3%

Not easily bio-degradable (according to OECD-criteria).

methacrylic acid, monoester with propane-1,2-diol:

Not easily bio-degradable (according to OECD-criteria).

cumene:

Easily biodegradable (concerning to the criteria of the OECD): 70% (20d)

2-methylpropenoic acid, methacrylic acid:

OECD 301D / EEC 92/69 annex V, C.4-E (28d) = 86%

Easily biodegradable (concerning to the criteria of the OECD)

maleic acid:

OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C (28 d) = 97%

Easily biodegradable (concerning to the criteria of the OECD)

propylidynetrimethyl trimethacrylate:

OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C (28 d) < 60%

Not easily bio-degradable (according to OECD-criteria). (<http://apps.echa.europa.eu/>)

#### 12.3. Bioaccumulative potential

No information available.

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**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
3290-92-4	propylidynetrimethyl trimethacrylate	3,53
27813-02-1	methacrylic acid, monoester with propane-1,2-diol	0,97
79-41-4	2-methylpropenoic acid, methacrylic acid	0,93
80-15-9	cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide	2,16
98-82-8	cumene	3,55
110-16-7	maleic acid	-0,79

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

No information available.

**12.6. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Advice on disposal**

Consult the local waste disposal expert about waste disposal.

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

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances  
Classified as hazardous waste.

**Waste disposal number of used product**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances  
Classified as hazardous waste.

**Waste disposal number of contaminated packaging**

150202 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; absorbents, filter materials, wiping cloths and protective clothing; absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances  
Classified as hazardous waste.

**Contaminated packaging**

Cleaned containers may be recycled.

**SECTION 14: Transport information****Land transport (ADR/RID)****14.1. UN number:**

UN3082

**14.2. UN proper shipping name:**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(propylidynetrimethyl trimethacrylate, cumene hydroperoxide,  
alpha,alpha-dimethylbenzyl hydroperoxide)**14.3. Transport hazard class(es):**

9

**14.4. Packing group:**

III

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Hazard label: 9



Classification code: M6  
Special Provisions: 274 335 601  
Limited quantity: 5 L  
Transport category: 3  
Hazard No: 90  
Tunnel restriction code: E

#### Other applicable information (land transport)

Excepted quantity: E1

#### Inland waterways transport (ADN)

**14.1. UN number:** UN3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(propylidynetrimethyl trimethacrylate, cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide)

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** III

Hazard label: 9



Classification code: M6  
Special Provisions: 274 335 601  
Limited quantity: 5 L

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

Excepted quantity: E1

#### Marine transport (IMDG)

**14.1. UN number:** UN3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(propylidynetrimethyl trimethacrylate, cumene hydroperoxide)

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** III

Hazard label: 9



Marine pollutant: Yes  
Special Provisions: 274, 335  
Limited quantity: 5 L  
EmS: F-A, S-F

#### Other applicable information (marine transport)

Excepted quantity: E1

#### Air transport (ICAO)

**14.1. UN number:** UN3082

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**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(propylidynetrimethyl trimethacrylate, cumene hydroperoxide)

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** III

Hazard label: 9



Special Provisions: A97 A158

Limited quantity Passenger: 30 kg G

IATA-packing instructions - Passenger: 964

IATA-max. quantity - Passenger: 450 L

IATA-packing instructions - Cargo: 964

IATA-max. quantity - Cargo: 450 L

#### Other applicable information (air transport)

Excepted quantity: E1

Passenger-LQ: Y964

#### 14.5. Environmental hazards

Dangerous for the environment: yes



#### 14.6. Special precautions for user

Do not empty into drains.

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

No information available.

### SECTION 15: Regulatory information

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

##### EU regulatory information

1999/13/EC (VOC): ~8 % Data concerning the Directive 1999/13/EC on the limitation of emissions of volatile organic compounds (VOC-RL)

##### Additional information

1967/548 (2008/58, 30. ATP/ 31. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006; 1272/2008; 75/324/EWG (2008/47/EG)

##### 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 Initial release 20.03.13

#### Abbreviations and acronyms

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

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RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations

Concerning the International Transport of Dangerous Goods by Rail)

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

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

#### Full text of R phrases referred to under Sections 2 and 3

07	May cause fire.
10	Flammable.
21/22	Harmful in contact with skin and if swallowed.
22	Harmful if swallowed.
23	Toxic by inhalation.
34	Causes burns.
35	Causes severe burns.
36	Irritating to eyes.
36/37/38	Irritating to eyes, respiratory system and skin.
37	Irritating to respiratory system.
43	May cause sensitisation by skin contact.
48/20/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
51	Toxic to aquatic organisms.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
53	May cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.

#### Full text of H statements referred to under Sections 2 and 3

H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
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.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

#### 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.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

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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.)*