

Trade name: Nitroverdünner BAG 43041

Substance number: 156300

Version: 7 / CH

Date revised: 29.09.2025

Replaces Version: 6 / CH

Print date: 29.09.25

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

Nitroverdünner BAG 43041

Item No. 15630000

**Substance / product identification**

UFI W7KH-81TR-S00H-EANX

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

Thinner for adhesive agent, Thinner for paint

**1.3. Details of the supplier of the safety data sheet****Address/Manufacturer**

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible  
for this SDS**1.4. Emergency telephone number**

Switzerland :145 / Abroad +41 (0)44 251 51 51

**SECTION 2: Hazards identification \*\*\*****2.1. Classification of the substance or mixture****Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2	H225
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Carc. 2	H351
Repr. 2	H361d
STOT SE 3	H336
STOT RE 2	H373
Asp. Tox. 1	H304
Aquatic Chronic 3	H412

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

**2.2. Label elements****Labelling according to regulation (EC) No 1272/2008****Hazard pictograms**

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**Signal word**

Danger

**Hazard statements \*\*\***

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary statements \*\*\***

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medicinal advice/attention.
P331	Do NOT induce vomiting.

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

contains	Hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclics; 4-methylpentan-2-one; toluene; acetone; n-butyl acetate
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**Reduced labeling (<= 125 ml)****Hazard pictograms \*\*\*****Signal word \*\*\***

Danger

**Hazard statements \*\*\***

H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H304	May be fatal if swallowed and enters airways.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary statements \*\*\***

P201	Obtain special instructions before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P308+P313	IF exposed or concerned: Get medicinal advice/attention.
P331	Do NOT induce vomiting.
P501.3	Disposal in compliance with local and national regulations.

**2.3. Other hazards**

The product contains no PBT substances. The product contains no vPvB substances. This product does

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not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

### SECTION 3: Composition/information on ingredients

#### Hazardous ingredients

##### toluene

CAS No.	108-88-3			
EINECS no.	203-625-9			
Registration no.	01-2119471310-51-XXXX			
Concentration	>= 20	< 25		%
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 2	H225		
	Asp. Tox. 1	H304		
	Skin Irrit. 2	H315		
	Repr. 2	H361d		
	STOT SE 3	H336		Nervous system
	STOT RE 2	H373		Nervous system
	Aquatic Chronic 3	H412		

##### 4-methylpentan-2-one

CAS No.	108-10-1			
EINECS no.	203-550-1			
Concentration	>= 20	< 25		%
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 2	H225		
	Acute Tox. 4	H332		
	Eye Irrit. 2	H319		
	Carc. 2	H351		
	STOT SE 3	H336		

cATpE	inhalative, Dust/Mist	1.5	mg/l
ATE	inhalative, Vapors	11	mg/l

##### n-butyl acetate

CAS No.	123-86-4			
EINECS no.	204-658-1			
Concentration	>= 20	< 25		%
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 3	H226		
	STOT SE 3	H336		

##### Hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclics

EINECS no.	920-750-0			
Registration no.	01-21199473851-33-XXXX			
Concentration	>= 10	< 20		%
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 2	H225		
	STOT SE 3	H336		
	Asp. Tox. 1	H304		
	Aquatic Chronic 2	H411		

##### acetone

CAS No.	67-64-1
EINECS no.	200-662-2

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Concentration	>=	1	<	10	%
Classification (Regulation (EC) No. 1272/2008)					
		Flam. Liq. 2		H225	
		Eye Irrit. 2		H319	
		STOT SE 3		H336	

**4-methylpentan-2-ol**

CAS No.	108-11-2
EINECS no.	203-551-7
Concentration	>= 1 < 10 %
Classification (Regulation (EC) No. 1272/2008)	
	Flam. Liq. 3 H226
	STOT SE 3 H335

Concentration limits (Regulation (EC) No. 1272/2008)

STOT SE 3	H335	>= 25 %
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**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Take affected person to fresh air. Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid

**After inhalation**

Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. In the event of symptoms take medical treatment. If the patient is likely to become unconscious, place and transport in stable sideways position.

**After skin contact**

Wash off immediately with soap and water and rinse well. Consult a doctor if skin irritation persists.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

**After ingestion**

Do not induce vomiting. Summon a doctor immediately. Rinse out mouth and give plenty of water to drink. Administer activated charcoal.

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

Irritation of mucosa, Headache, Dizziness, Gastrointestinal complaints, Nausea, Intoxication, Narcosis

**4.3. Indication of any immediate medical attention and special treatment needed****Hints for the physician / hazards**

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, Water spray jet, Dry powder, Extinguish greater fire with water spray or alcohol-resistant foam.

**Non suitable extinguishing media**

Full water jet

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**5.2. Special hazards arising from the substance or mixture**Carbon monoxide (CO); Forms explosive mixture with air are possible. Carbon dioxide (CO<sub>2</sub>)**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

**Other information**

Cool endangered containers with water spray jet.

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

Wear protective equipment. Keep away unprotected persons.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Prevent spread over a wide area (e.g. by containment or oil barriers). In case the product spills into sewage waters, immediately inform the authorities.

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

Take up with absorbent material (eg sand, kieselguhr, universal binder). Dispose of absorbed material in accordance with the regulations. Ensure adequate ventilation.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary). Provide good room ventilation even at ground level (vapours are heavier than air). Keep container tightly closed. Avoid inhalation of vapour and spray mist.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Take action to prevent static discharges. Use explosion-proof equipment/fittings and non-sparking tools. Vapours can form an explosive mixture with air. Risk of explosion if the liquid enters the drains.

**7.2. Conditions for safe storage, including any incompatibilities****Recommended storage temperature**

Value	15	25	°C
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**Requirements for storage rooms and vessels**

explosion proof. Provide solvent-resistant and impermeable floor.

**Hints on storage assembly**

Do not store with oxidizing agents.

**Storage classes**

Storage class according to TRGS 510	3	Flammable liquid
Storage category (Switzerland)	3	Flammable liquid

**Further information on storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

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

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## 8.1. Control parameters

### Exposure limit values

#### toluene

List	SUVA			
Type	MAK			
Value	190	mg/m <sup>3</sup>	50	ppm(V)
Short term exposure limit	760	mg/m <sup>3</sup>	200	ppm(V)
Skin resorption / sensibilisation: H; Pregnancy group: S Remarks: H OL B R2F R2D SSc; Sehen, ZNS; DFG, HSE, INRS, NIOSH				

#### acetone

List	SUVA			
Type	MAK			
Value	1200	mg/m <sup>3</sup>	500	ppm(V)
Short term exposure limit	2400	mg/m <sup>3</sup>	1000	ppm(V)
Remarks: B ZNS; AugeKT HU & AWKT HU; NIOSH				

#### 4-methylpentan-2-one

List	SUVA			
Type	MAK			
Value	82	mg/m <sup>3</sup>	20	ppm(V)
Short term exposure limit	164	mg/m <sup>3</sup>	40	ppm(V)
Skin resorption / sensibilisation: H; Pregnancy group: S Remarks: H B SSc; OAW, ZNS, AugeKT HU; DFG, INRS, NIOSH				

#### n-butyl acetate

List	SUVA			
Type	MAK			
Value	240	mg/m <sup>3</sup>	50	ppm(V)
Short term exposure limit	720	mg/m <sup>3</sup>	150	ppm(V)
Pregnancy group: S Remarks: SSc; AW Auge; INRS NIOSH				

#### 4-methylpentan-2-ol

List	SUVA			
Type	MAK			
Value	85	mg/m <sup>3</sup>	20	ppm(V)
Short term exposure limit	85	mg/m <sup>3</sup>	20	ppm(V)
Skin resorption / sensibilisation: H Remarks: H; ZNS, Auge, OAWKT HU; NIOSH				

### Derived No/Minimal Effect Levels (DNEL/DMEL)

#### Hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclics

Type of value	Derived No Effect Level (DNEL)			
Reference group	Worker			
Duration of exposure	Long term			
Route of exposure	dermal			
Mode of action	Systemic effects			
Concentration	773			mg/kg/d

Type of value	Derived No Effect Level (DNEL)			
Reference group	Worker			
Duration of exposure	Long term			
Route of exposure	inhalative			
Mode of action	Systemic effects			
Concentration	2035			mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)			
Reference group	Consumer			
Duration of exposure	Long term			

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Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	699	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	608	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	699	mg/kg/d

**toluene**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	192	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	192	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	384	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	384	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	384	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	

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Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	56.5	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	56.5	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	226	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	226	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	226	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	8.13	mg/kg/d

**acetone**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	186	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	1210	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
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Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	2420	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	62	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	200	mg/m <sup>3</sup>
<b>4-methylpentan-2-one</b>		
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	208	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	83	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	11.8	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	14.7	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	155.2	mg/m <sup>3</sup>

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Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	4.2	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	4.2	mg/kg/d

**n-butyl acetate**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	7	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	48	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	3.4	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	inhalative	
Concentration	12	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	oral	
Concentration	3.4	mg/kg/d

**4-methylpentan-2-ol**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	208	mg/m <sup>3</sup>

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Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	104	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	83	mg/m <sup>3</sup>
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	11.8	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	155.2	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	52.1	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	14.7	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	4.2	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Concentration	4.2	mg/kg/d

**Predicted No Effect Concentration (PNEC)****toluene**

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Type of value	PNEC	
Type	Freshwater	
Concentration	0.68	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0.68	mg/l
Type of value	PNEC	
Conditions	Intermittend	
Concentration	0.68	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	13.61	mg/l
Type of value	PNEC	
Type	Sediment	
Concentration	16.39	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	16.39	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	2.89	mg/kg
<b>acetone</b>		
Type of value	PNEC	
Type	Freshwater	
Concentration	10.6	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	1.06	mg/l
Conditions	Intermittend	
Concentration	21	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	100	mg/l
Type of value	PNEC	
Type	Sediment	
Concentration	30.4	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	3.04	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	29.5	mg/kg

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**4-methylpentan-2-one**

Type of value	PNEC	
Type	Freshwater	
Concentration	0.6	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0.06	mg/l
Type of value	PNEC	
Type	Water	
Conditions	Intermittend	
Concentration	1.5	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	27.5	mg/l
Type of value	PNEC	
Type	Sediment	
Concentration	8.27	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0.83	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	1.3	mg/kg

**n-butyl acetate**

Type of value	PNEC	
Type	Freshwater	
Concentration	0.18	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0.018	mg/l
Type of value	PNEC	
Conditions	Intermittend	
Concentration	0.36	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	35.6	mg/l
Type of value	PNEC	
Type	Sediment	
Concentration	0.981	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0.0903	mg/kg

**4-methylpentan-2-ol**

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Type of value	PNEC	
Type	Freshwater	
Concentration	0.6	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0.06	mg/l
Type of value	PNEC	
Conditions	Intermittend	
Concentration	3.3	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	1	mg/l
Type of value	PNEC	
Type	Marine sediment	
Concentration	0.3	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0.24	mg/kg

## 8.2. Exposure controls

### General protective and hygiene measures

Keep away from food-stuffs, beverages and feed-stocks. Wash hands before breaks and after work. Avoid contact with skin and eyes. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. At work do not eat, drink, smoke or take drugs.

### Respiratory protection

Breathing apparatus in the event of vapours. Breathing apparatus in the event of aerosol or mist formation. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. At intensive and longer exposition use self-contained breathing apparatus. Short term: filter apparatus; combination filter A-P2

### Hand protection \*\*\*

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Appropriate Material	nitrile rubber - NBR
Material thickness	0.4 mm

### Eye protection

Tightly fitting safety glasses

### Body protection

Solvent-resistant protective clothing

## SECTION 9: Physical and chemical properties

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

Physical state	liquid
Colour	colourless
Melting point	
Remarks	not determined

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**Boiling point or initial boiling point and boiling range**

Value 56 to 165 °C

**Upper and lower explosive limits**

Lower explosion limit 0.9 to 15 %(V)

**Flash point**

Value &lt; 0 °C

**Auto-ignition temperature**

Value &gt; 200 °C

**Vapour pressure**

Remarks No data available

**Density and/or relative density**Value 0.82 g/cm<sup>3</sup>

Temperature 20 °C

**9.2. Other information****Solubility in water**

Remarks slightly soluble

**Solvent content**

Value 100 %

**Other information**

The product is dangerous for explosions. Forms explosive mixture with air are possible.

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

No decomposition if stored and applied as directed.

**10.2. Chemical stability**

No decomposition if stored and applied as directed.

**10.3. Possibility of hazardous reactions**

To avoid thermal decomposition, do not overheat. Vapours can form an explosive mixture with air. Possible incompatibility with materials listed under section 10.5.

**10.4. Conditions to avoid**

Keep away from sources of heat and ignition. Flames. Sparks. Protect from direct sunlight.

**10.5. Incompatible materials**

Reaction with nitric acid. Strong oxidising agents, strong reducing agents, Acids, Bases, Reactions with halogenated compounds. peroxides, amines, Alkaline metals, Reactions with earth alkali metals. acetic acid anhydride

**10.6. Hazardous decomposition products**

In the event of fire the following can be released: Carbon monoxide and carbon dioxide, Aldehydes, Toxic gases/vapours

**Other information**

Formation of explosive gas/air mixtures.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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**Acute oral toxicity**

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

**Acute oral toxicity (Components)****Hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclics**

Species	rat	
LD50	> 5000	mg/kg
Method	OECD 401	

**toluene**

Species	rat	
LD50	5580	mg/kg
Duration of exposure	-	
Method	OECD 401	

**acetone**

Species	rat	
LD50	5800	mg/kg
Method	OECD 401	

**4-methylpentan-2-one**

Species	rat	
LD50	2080	mg/kg
Method	OECD 401	

**n-butyl acetate**

Species	rat	
LD50	10760	mg/kg
Method	OECD 423	

**4-methylpentan-2-ol**

Species	rat	
LD50	2590	mg/kg
Method	OECD 401	

**Acute dermal toxicity**

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

**Acute dermal toxicity (Components)****Hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclics**

Species	rabbit	
LD50	> 2800	mg/kg
Method	OECD 402	

**toluene**

Species	rabbit	
LD50	> 5000	mg/kg

**acetone**

Species	rat	
LD50	> 15800	mg/kg

**4-methylpentan-2-one**

Species	rat	
LD50	> 16000	mg/kg

**n-butyl acetate**

Species	rabbit	
LD50	> 14112	mg/kg
Method	OECD 402	

**4-methylpentan-2-ol**

Species	rabbit	
LD50	2870	mg/kg

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Method OECD 402

**Acute inhalational toxicity**

ATE	44.0176	mg/l
Administration/Form	Vapors	
Method	calculated value according to GHS (e.g see UN GHS)	
ATE	6.0024	mg/l
Administration/Form	Dust/Mist	
Method	calculated value according to GHS (e.g see UN GHS)	
Remarks	Based on available data, the classification criteria are not met.	

**Acute inhalative toxicity (Components)****Hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclics**

Species	rat	
LC50	> 23.3	mg/l
Duration of exposure	4	h
Method	OECD 403	

**toluene**

Species	Rats (male/female)	
LC50	28.1	mg/l
Duration of exposure	4	h
Method	OECD 403	

**toluene**

Species	rat (male)	
LC50	25.7	mg/l
Administration/Form	Vapors	
Method	OECD 403	

**toluene**

Species	rat (female)	
LC50	30	mg/l
Administration/Form	Vapors	
Method	OECD 403	

**acetone**

Species	rat	
LC50	appr. 76	mg/l
Duration of exposure	4	h
Remarks	May cause pain in nose and throat, nausea, dizziness, headache, loss of responsiveness and unconsciousness at high concentrations.	

**4-methylpentan-2-one**

Species	rat	
LC50	> 2000	ppm(V)
Duration of exposure	4	h

**4-methylpentan-2-one**

Species	rat	
NOAEC	450	ppm(V)
Administration/Form	Vapors	

**4-methylpentan-2-one**

ATE	11.00	mg/l
Administration/Form	Vapors	
Source	ECHA	

**n-butyl acetate**

Species	rat	
LC50	23.4	mg/l
Duration of exposure	4	h
Administration/Form	Dust/Mist	

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Method OECD 403

**4-methylpentan-2-ol**

Species rat  
 LC50 < 16 mg/l  
 Method OECD 403

**Skin corrosion/irritation**

evaluation irritant  
 Remarks The classification criteria are met.

**Skin corrosion/irritation (Components)****Hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclics**

Remarks No data available.

**toluene**

Species rabbit  
 evaluation irritant  
 Method OECD 404  
 Remarks Danger of resorption through the skin.

**acetone**

Remarks Frequent persistent contact with the skin can cause skin irritation.

**4-methylpentan-2-one**

Species rabbit  
 evaluation non-irritant  
 Method OECD 404

**4-methylpentan-2-one**

Species Human  
 Remarks Repeated and prolonged skin contact may lead to defatting and irritation of the skin.

**n-butyl acetate**

Method OECD 404  
 Remarks None

**4-methylpentan-2-ol**

Species rabbit  
 evaluation irritant  
 Method OECD 404

**Serious eye damage/irritation**

evaluation irritant  
 Remarks The classification criteria are met.

**Serious eye damage/irritation (Components)****Hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclics**

Remarks No data available.

**toluene**

Species rabbit  
 Method OECD 405  
 Remarks None

**acetone**

evaluation irritant - risk of serious damage to eyes

**4-methylpentan-2-one**

Species rabbit  
 evaluation slightly irritant  
 Method OECD 405

**4-methylpentan-2-one**

Species Human

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Remarks Eye contact with the product may lead to irritation.

**n-butyl acetate**

Species rabbit  
evaluation non-irritant  
Method OECD 405

**4-methylpentan-2-ol**

Species rabbit  
evaluation irritant  
Method OECD 405

**Sensitization**

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

**Sensitization (Components)****Hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclics**

Remarks No data available.

**toluene**

Species guinea pig  
evaluation non-sensitizing  
Method OECD 406

**acetone**

Species guinea pig  
evaluation non-sensitizing  
Method OECD 406

**4-methylpentan-2-one**

Species guinea pig  
evaluation non-sensitizing  
Method OECD 406

**n-butyl acetate**

Species guinea pig  
evaluation non-sensitizing  
Method OECD 406

**n-butyl acetate**

Species mouse  
evaluation non-sensitizing

**Subacute, subchronic, chronic toxicity**

Remarks Repeated absorption/exposure may cause disorder of liver and kidneys.

**Subacute, subchronic, chronic toxicity (Components)****Hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclics**

Remarks No data available

**Mutagenicity**

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

**Mutagenicity (Components)****Hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclics**

Remarks No data available.

**toluene**

evaluation No mutagenicity according to various in vitro tests.

**acetone**

evaluation No mutagenicity according to various in vitro tests.

**4-methylpentan-2-one**

Remarks negative

**n-butyl acetate**

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Method  
Remarks

Ames test  
negative

**4-methylpentan-2-ol**

Remarks

None

**Reproductive toxicity**

evaluation  
Remarks

Suspected of damaging the unborn child.  
The classification criteria are met.

**Reproduction toxicity (Components)****Hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclics**

Remarks

No data available.

**toluene**

evaluation  
Remarks

Suspected of damaging the unborn child.  
Indications of toxic effects are available from reproduction studies in animals.

**acetone**

Remarks

No indications of toxic effects were observed in reproduction studies in animals.

**4-methylpentan-2-one**

Remarks

negative

**4-methylpentan-2-ol**

Route of exposure  
Dose  
evaluation  
Remarks

inhalative  
4.16 mg/l  
No negative effects  
Test conducted with a similar formulation.

**Carcinogenicity**

evaluation  
Remarks

Suspected of causing cancer.  
The classification criteria are met.

**Carcinogenicity (Components)****Hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclics**

Remarks

No data available.

**toluene**

Species  
evaluation

mammal, species unspecified  
No indications of carcinogenic effects are available from long-term trials.

**acetone**

Remarks

No evidence available on carcinogenicity.

**4-methylpentan-2-one**

evaluation

No negative effects

**4-methylpentan-2-one**

evaluation  
Method

No negative effects  
Ames test

**4-methylpentan-2-ol**

Dose  
Remarks

1.84 mg/l  
No evidence available on carcinogenicity.

**Specific Target Organ Toxicity (STOT)****Single exposure**

Remarks  
evaluation

The classification criteria are met.  
May cause drowsiness or dizziness.

**Repeated exposure**

Remarks  
evaluation

The classification criteria are met.  
May cause damage to organs through prolonged or repeated exposure

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**Specific Target Organ Toxicity (STOT) (Components)****Hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclics**

Remarks No data available

**toluene****Single exposure**Route of exposure inhalative  
Organs: Nervous system**toluene****Repeated exposure  
evaluation**May cause damage to organs.  
Route of exposure inhalative**acetone****Repeated exposure**Route of exposure oral  
rat

Species

NOAEL 900 mg/kg/d

Duration of exposure 90 Days

**acetone****Repeated exposure**Route of exposure inhalative  
rat

Species

NOAEC 22500 mg/m<sup>3</sup>

Duration of exposure 8 Weeks

**4-methylpentan-2-ol**Route of exposure inhalative  
Organs: Respiratory tract**Aspiration hazard**

The classification criteria are met.

Harmful: may cause lung damage if swallowed.

**Aspiration hazard (Components)****toluene**

Harmful: may cause lung damage if swallowed.

**11.2. Information on other hazards****Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

**Experience in practice**

Can be absorbed through skin.

**Other information**

When inhaled or swallowed depending on the time and amount, it can give rise to the following symptoms: narcosis, headache, dizziness...

**SECTION 12: Ecological information \*\*\*****12.1. Toxicity****Fish toxicity (Components)****Hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclics**Species rainbow trout (*Oncorhynchus mykiss*)

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LLC > 13.4 mg/l  
Duration of exposure 96 h

**toluene**

Species Oncorhynchus kisutch  
LC50 5.5 mg/l  
Duration of exposure 96 h

**acetone**

Species rainbow trout (Oncorhynchus mykiss)  
LC50 5540 mg/l  
Duration of exposure 96 h

**acetone**

Species bleak  
LC50 11000 mg/l  
Duration of exposure 96 h

**4-methylpentan-2-one**

Species zebra fish (Brachydanio rerio)  
LC50 > 179 mg/l  
Duration of exposure 96 h  
Method OECD 203

**n-butyl acetate**

Species Fathead minnow (Pimephales promelas)  
LC50 18 mg/l  
Duration of exposure 96 h

**4-methylpentan-2-ol**

Species Fathead minnow (Pimephales promelas)  
LC50 > 92.4 mg/l  
Method OECD 203

**Daphnia toxicity (Components)****Hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclics**

Species Daphnia magna  
3 mg/l  
Duration of exposure 48 h  
Remarks Test conducted with a similar formulation.

**Hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclics**

Species Daphnia magna  
NOEC 0.17 mg/l  
Duration of exposure 21 d

**Hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclics**

Species Daphnia magna  
LOEC 0.32 mg/l  
Duration of exposure 21 d

**toluene**

Species Ceriodaphnia spec  
LC50 3.78 mg/l  
Duration of exposure 48 h

**toluene**

Species Ceriodaphnia dubia  
NOEC 0.74 mg/l  
Duration of exposure 7 d

**acetone**

Species Daphnia pulex  
LC50 8800 mg/l  
Duration of exposure 48 h

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**acetone**

Species	Daphnia pulex			
	2212			mg/l
Duration of exposure	28	d		

**4-methylpentan-2-one**

Species	Daphnia magna			
EC50	> 200			mg/l
Duration of exposure	48	h		

**4-methylpentan-2-one**

Species	Daphnia magna			
NOEC	30	to	35	mg/l
Duration of exposure	21	d		
Method	OECD 211			

**n-butyl acetate**

Species	Daphnia magna			
EC50	44			mg/l
Duration of exposure	48	h		

**4-methylpentan-2-ol**

Species	Daphnia magna			
EC50	337			mg/l
Duration of exposure	48	h		
Method	OECD 201			

**Algae toxicity (Components)****Hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclics**

Species	Raphidocelis subcapitata			
NOEC	10			mg/l
Duration of exposure	72	h		

**Hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclics**

Species	Raphidocelis subcapitata			
EC50	10	to	30	mg/l
Duration of exposure	72	h		
Source	BM000318 SDS Brenntag 20140730.pdf			

**toluene**

Species	Chlamydomonas angulosa			
EC50	134			mg/l
Duration of exposure	3	h		
Source	LS-3542-00 SDS Brenntag 20160517			

**acetone**

Species	Prorocentrum minimum			
NOEC	430			mg/l
Duration of exposure	96	h		

**n-butyl acetate**

Species	Desmodesmus subspicatus			
EC50	647.7			mg/l
Duration of exposure	72	h		

**n-butyl acetate**

Species	Desmodesmus subspicatus			
NOEC	200			mg/l

**4-methylpentan-2-ol**

Species	Raphidocelis subcapitata			
	334			mg/l
Duration of exposure	96	h		
Method	OECD 201			

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**Bacteria toxicity (Components)****toluene**

Species	Nitrosomonas sp	
EC50	84	mg/l
Duration of exposure	24	h

**acetone**

Species	activated sludge	
	1000	mg/l
Duration of exposure	0.5	h
Method	OECD 209	

**4-methylpentan-2-one**

Species	Pseudomonas putida	
	275	mg/l
Duration of exposure	16	h

**n-butyl acetate**

Species	Tetrahymena	
IC50	356	mg/l
Duration of exposure	40	h

**4-methylpentan-2-ol**

Species	activated sludge	
EC50	> 100	mg/l
Duration of exposure	3	h
Method	OECD 209	

**12.2. Persistence and degradability****Physico-chemical eliminability (Components)****toluene**

Remarks	The product is readily biodegradable according to OECD criteria.
---------	--

**acetone**

Remarks	The product is readily biodegradable according to OECD criteria.
---------	--

**4-methylpentan-2-one**

Remarks	The product is readily biodegradable according to OECD criteria.
---------	--

**n-butyl acetate**

Remarks	The product is readily biodegradable according to OECD criteria.
---------	--

**4-methylpentan-2-ol**

Remarks	The product is readily biodegradable according to OECD criteria.
---------	--

**Biodegradability**

evaluation	Moderately/partially biodegradable
------------	------------------------------------

**Biodegradability (Components)****toluene**

Value	86	%
Duration of test	20	d
Remarks	The product is readily biodegradable according to OECD criteria.	

**acetone**

Value	91	%
Duration of test	28	d
evaluation	Readily biodegradable	
Method	OECD 301 B	

**4-methylpentan-2-one**

Value	83	%
Duration of test	28	d

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evaluation  
Method

Readily biodegradable  
OECD 301

**n-butyl acetate**

Value 83 %

Duration of test 28 d

evaluation  
Method

Readily biodegradable  
OECD 301

**4-methylpentan-2-ol**

Value 85 %

Duration of test 28 d

Method OECD 301

Remarks The product is readily biodegradable according to OECD criteria.

**Chemical oxygen demand (COD) (Components)****toluene**

Value 700 mg/g

**acetone**

Value 2100 mg/g

**Biochemical oxygen demand (BOD5) (Components)****acetone**

Value 1760 mg/g

Duration of test 5 d

**12.3. Bioaccumulative potential****Octanol/water partition coefficient (log Pow) (Components)****toluene**

log Pow 2.73

Temperature 20 °C

**acetone**

log Pow -0.24

**Bioconcentration factor (BCF) (Components)****acetone**

BCF < 10

**12.4. Mobility in soil****General information**

For this subsection there is no ecotoxicological data available on the product as such.

**Mobility in soil (Components)****toluene**

Mobile in soils

**toluene**

The product is insoluble and floats on water.

**acetone**

Mobile in soils

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

The product contains no PBT substances

The product contains no vPvB substances.

**12.6 Endocrine disrupting properties****Endocrine disrupting properties with respect to the environment**

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The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

## 12.7. Other adverse effects

### General information / ecology

Harmful to aquatic organisms. Do not allow it to reach ground water, water bodies or sewage system.  
Hazard for drinking water supplies.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations for the product

Disposal in compliance with local and national regulations.

EWC waste code

No not dispose with rubbish.




EWC waste code

Should not be released into the sanitary sewer system.

#### Disposal recommendations for packaging

Unpurified packings can contain mixtures of gas and air which are capable of explosion.  
Disposal in compliance with local and national regulations.

## SECTION 14: Transport information \*\*\*

	Land transport ADR/RID ***	Marine transport IMDG/GGVSee ***	Air transport ICAO/IATA ***
14.1. UN number or ID number	1993	1993	1993
14.2. UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (toluene, 4-methylpentan-2-one)	FLAMMABLE LIQUID, N.O.S. (toluene, 4-methylpentan-2-one)	FLAMMABLE LIQUID, N.O.S. (toluene, 4-methylpentan-2-one)
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	II	II	II
Special provision	640D		
Limited Quantity	1 I	1 I	
Transport category	2		
14.5. Environmental hazards	-		
Tunnel restriction code	D/E		

## SECTION 15: Regulatory information \*\*\*

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

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**Water Hazard Class (Germany) \*\*\***

Water Hazard Class (Germany) WGK 3

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

**Other information \*\*\***

The product does not contain substances according to Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH) with a content of  $\geq 0.1\%$  w/w.

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2	H225	On basis of test data
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Carc. 2	H351	Calculation method
Repr. 2	H361d	Calculation method
STOT SE 3	H336	Calculation method
STOT RE 2	H373	Calculation method
Asp. Tox. 1	H304	Calculation method
Aquatic Chronic 3	H412	Calculation method

**Hazard statements listed in Chapter 2/3**

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
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.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

**CLP categories listed in Chapter 2/3**

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin irritation, Category 2
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

**Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

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