

**METHYLISOBUTYLKETON**

Version: 11.00

Revision Date 05.04.2019

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

<b>Trade name</b>	<b>Methylisobutylketon</b>
<b>REACH No.</b>	01-2119473980-30-0001
<b>Substance name (REACH / CLP)</b>	4-methylpentan-2-one; isobutyl methyl ketone

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

<b>Use</b>	Solvent raw material for printing inks and printing ink additives raw material for photochemicals
<b>Uses advised against</b>	

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

<b>Company</b>	Sasol Chemie GmbH & Co. KG Anckelmannsplatz 1 20537 Hamburg Germany
	Telephone: +49 40 63684-1000 Telefax: +49 40 63684-3700
<b>Information (Product safety):</b>	Telephone: + 49 (0) 23 65 - 49 47 05 Telefax: + 49 (0) 23 65 - 49 92 40
<b>E-mail address</b>	solvents.germany.msds@de.sasol.com

**1.4 Emergency telephone number**

<b>Emergency telephone number</b>	+44 (0)1235 239 670 (Europe, Israel, Africa, Americas) +44 (0)1235 239 671 (Middle East, Arabic African countries) +65 3158 1074 (Asia Pacific) +86 10 5100 3039 (China) +27 (0)17 610 4444 (South Africa) +61 (2)8014 4558 (Australia)
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**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Flammable liquids Category 2	Highly flammable liquid and vapour.
Acute toxicity Category 4 (Inhalation)	Harmful if inhaled.
Eye irritation Category 2	Causes serious eye irritation.
Specific target organ toxicity - single exposure Category 3 (Respiratory system)	May cause respiratory irritation.

**2.2 Label elements**

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## Labelling (REGULATION (EC) No 1272/2008)

### Hazard pictograms



### Signal word

Danger

### Hazard statements

H225 Highly flammable liquid and vapour.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.

### Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 P233 Keep container tightly closed.  
 P243 Take precautionary measures against static discharge.  
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

### Supplemental Hazard Statements

EUH066 Repeated exposure may cause skin dryness or cracking.

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

- 4-methylpentan-2-one; isobutyl methyl ketone

## 2.3 Other hazards

Vapours may form explosive mixture with air.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a substance in the meaning of regulation (EC) 1907/2006.

### COMPONENTS TO BE NAMED IN ACCORDANCE WITH REGULATION (EC) 1907/2006 AS WELL AS OTHER HAZARDOUS INGREDIENTS AND CONTAINED SUBSTANCES WITH WORK PLACE LIMIT VALUES

#### 4-methylpentan-2-one; isobutyl methyl ketone

content: <= 100 %

component type: Active ingredient

EC-No.: 203-550-1

Index-No.: 606-004-00-4

CAS-No.: 108-10-1

REACH No.: 01-2119473980-30-0001

#### Classification (Regulation (EC) No 1272/2008):

Flam. Liq. 2	H225
Acute Tox. 4 (Inhalation)	H332
Eye Irrit. 2	H319
STOT SE 3 ( Respiratory organs)	H335

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For the full text of the H-Statements mentioned in this Section, see Section 16.

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures**

<b>General advice</b>	Take off contaminated clothing and shoes immediately.
<b>If inhaled</b>	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>In case of skin contact</b>	Wash off immediately with plenty of water.
<b>In case of eye contact</b>	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
<b>If swallowed</b>	Obtain medical attention.

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

<b>Most important symptoms and effects, both acute and delayed</b>	Risks: No information available.
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**4.3 Indication of any immediate medical attention and special treatment needed**

<b>Indication of any immediate medical attention and special treatment needed</b>	Treatment: For specialist advice physicians should contact the Poisons Information Service.
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**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	Alcohol-resistant foam, Dry powder, Water spray, Carbon dioxide (CO <sub>2</sub> ) in enclosed spaces
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**5.2 Special hazards arising from the substance or mixture**

<b>Specific hazards during firefighting</b>	When fighting fires in enclosed spaces: caution, danger of suffocation! Flash back possible over considerable distance. Vapours may form explosive mixtures with air.
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**5.3 Advice for firefighters**

<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus and protective suit.
<b>Further information</b>	Cool containers/tanks with water spray.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Ensure adequate ventilation. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.
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**6.2 Environmental precautions**

<b>Environmental precautions</b>	Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.
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## 6.3 Methods and materials for containment and cleaning up

### Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). The material taken up must be disposed of in accordance with regulations.

## 6.4 Reference to other sections

For personal protection see section 8.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### Advice on safe handling

Ensure adequate ventilation.  
Vapours are heavier than air and may spread along floors.  
Avoid formation of aerosol.

#### Advice on protection against fire and explosion

Do not allow to enter drains (danger of explosion).  
Use only explosion-proof equipment.  
Take precautionary measures against static discharges.  
Vapours may form explosive mixtures with air.  
Keep away from sources of ignition - No smoking.

#### Temperature class

T1

#### Fire-fighting class

B: Fires involving liquids or liquid containing substances. Also includes substances which become liquid at elevated temperatures.

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

#### Requirements for storage areas and containers

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

#### Storage class (TRGS 510)

3: Flammable liquids

### 7.3 Specific end use(s)

#### Specific use(s)

Consult the technical guidelines for the use of this substance/mixture.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

##### National occupational exposure limits

Control parameters / Substance name	Typ	Control parameters	Update	Basis
METHYL ISOBUTYL KETONE (MIBK)	TWA TWA	83 mg/m <sup>3</sup> 20 ppm	2007 2007	Ireland Exposure Limit Values List
	Indicative OELV			
METHYL ISOBUTYL KETONE (MIBK)	STEL STEL	208 mg/m <sup>3</sup> 50 ppm	2007 2007	Ireland Exposure Limit Values List
	Indicative OELV			

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Can be absorbed through the skin.
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## EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

Control parameters / Substance name	Typ	Control parameters	Update	Basis
4-METHYLPENTAN-2-ONE	TWA TWA	83 mg/m <sup>3</sup> 20 ppm	02 2006 02 2006	EU Exposure Limit Values
4-METHYLPENTAN-2-ONE	STEL STEL	208 mg/m <sup>3</sup> 50 ppm	02 2006 02 2006	EU Exposure Limit Values
4-METHYLPENTAN-2-ONE	TWA TWA	83 mg/m <sup>3</sup> 20 ppm	2014 2014	EU SCOELS
4-METHYLPENTAN-2-ONE	STEL STEL	208 mg/m <sup>3</sup> 50 ppm	2014 2014	EU SCOELS

## DERIVED NO EFFECT LEVEL (DNEL)

Substance name: 4-methylpentan-2-one; isobutyl methyl ketone			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects		Not relevant / Not applicable
	Inhalation, Acute/short-term exposure - systemic effects	208 mg/m <sup>3</sup>	
	dermal, Acute/short-term exposure - local effects		Not relevant / Not applicable
	Inhalation, Acute/short-term exposure - local effects	208 mg/m <sup>3</sup>	
	dermal, long-term exposure - systemic effects	11,8 mg/kg Body weight/day	
	Inhalation, long-term exposure - systemic effects	83 mg/m <sup>3</sup>	
	dermal, long-term exposure - local effects		Not relevant / Not applicable
	Inhalation, long-term exposure - local effects	83 mg/m <sup>3</sup>	
Consumers	dermal, Acute/short-term exposure - systemic effects		Not relevant / Not applicable
	Inhalation, Acute/short-term exposure - systemic effects	155,2 mg/m <sup>3</sup>	
	Oral, Acute/short-term exposure - systemic effects		Not relevant / Not applicable
	dermal, Acute/short-term exposure - local effects		Not relevant / Not applicable
	Inhalation, Acute/short-term exposure - local effects	155,2 mg/m <sup>3</sup>	
	dermal, long-term exposure - systemic	4,2 mg/kg	

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	effects	Body weight/day	
	Inhalation, long-term exposure - systemic effects	14,7 mg/m <sup>3</sup>	
	Oral, long-term exposure - systemic effects	4,2 mg/kg Body weight/day	
	dermal, long-term exposure - local effects		Not relevant / Not applicable
	Inhalation, long-term exposure - local effects	14,7 mg/m <sup>3</sup>	

## PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: 4-methylpentan-2-one; isobutyl methyl ketone		
Environmental Compartment	Value	Note
Fresh water	0,6 mg/l	
Marine water	0,06 mg/l	
intermittent release	1,5 mg/l	
treatment plant	27,5 mg/l	
Fresh water sediment	8,27 mg/kg	based on dry weight
Marine sediment	0,83 mg/kg	based on dry weight
Soil	1,3 mg/kg	based on dry weight
food		Not relevant / Not applicable

## 8.2 Exposure controls

### PERSONAL PROTECTIVE EQUIPMENT

#### Respiratory protection

No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a type A filter or appropriate combined filter (e.g. where aerosols are in use, or smoke and mist occur, A-P2 or ABEK-P2), in compliance with EN 141.

#### Hand protection

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other., Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time., Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).

#### gloves suitable for permanent contact:

Material: Multi-layer glove - polyethylene/ethylene-vinyl alcohol copolymer/polyethylene  
Break through time: >= 480 min

#### Eye protection

Tightly fitting safety goggles

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<b>Skin and body protection</b>	Wear suitable protective equipment.
<b>Hygiene measures</b>	Take off all contaminated clothing immediately.
<b>Protective measures</b>	Do not breathe vapours or spray mist. Avoid contact with the skin and the eyes.

**ENVIRONMENTAL EXPOSURE CONTROLS**

<b>General advice</b>	Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.
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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	liquid; 20 °C; 1.013 hPa
<b>Form</b>	liquid
<b>Colour</b>	colourless
<b>Odour</b>	characteristic, acetone-like
<b>Odour Threshold</b>	No valid method available
<b>pH</b>	Not applicable
<b>Melting point/range</b>	-84 °C; 1.013 hPa
<b>Boiling point/boiling range</b>	116 - 118 °C; 1.013 hPa; DIN 53171
<b>Flash point</b>	15 - 23 °C; DIN 51755
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	not applicable (liquid)
<b>Lower explosion limit</b>	1,2 %(V)
<b>Upper explosion limit</b>	8,0 %(V)
<b>Vapour pressure</b>	20,2 hPa; 20 °C 26,4 hPa; 25 °C
<b>Relative vapour density</b>	ca. 3,45
<b>Density</b>	0,7978 g/cm <sup>3</sup> ; 20 °C
<b>Solubility/qualitative</b>	miscible with most organic solvents
<b>Water solubility</b>	14,1 g/l; 20 °C
<b>Partition coefficient: n-octanol/water</b>	Pow: 79; log Pow: 1,9; pH: 6,7
<b>Ignition temperature</b>	448 °C; DIN 51794
<b>Auto-ignition temperature</b>	460 °C; 1.013 hPa
<b>Viscosity, dynamic</b>	0,585 mPas; 20 °C
<b>Explosive properties</b>	not expected based on structure and functional groups
<b>Oxidizing properties</b>	not expected based on structure and functional groups

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**9.2 Other data**

None known.

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity****Note** Vapours may form explosive mixture with air.**10.2 Chemical stability****Note** No data available**10.3 Possibility of hazardous reactions****Hazardous reactions** May form explosive peroxides.**10.4 Conditions to avoid****Conditions to avoid** Extremes of temperature and direct sunlight.**10.5 Incompatible materials to avoid****Materials to avoid** Oxidizing agents;**10.6 Hazardous decomposition products****Hazardous decomposition products** None known.**Thermal decomposition** Distills without decomposition at atmospheric pressure.**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute toxicity****Acute oral toxicity** 4-methylpentan-2-one; isobutyl methyl ketone:  
LD50 Rat: > 2.000 - 5.000 mg/kg; (literature value)  
(literature value)  
Based on available data, the classification criteria are not met.**Acute inhalation toxicity** 4-methylpentan-2-one; isobutyl methyl ketone:  
LC50 Rat: > 2 - 20 mg/l; 4 h  
Test atmosphere: vapour  
(literature value)  
Harmful if inhaled.**Acute dermal toxicity** 4-methylpentan-2-one; isobutyl methyl ketone:  
LD50 Rat: > 2.000 mg/kg; OECD Test Guideline 402  
(literature value)  
Based on available data, the classification criteria are not met.**Skin corrosion/irritation****Skin irritation** 4-methylpentan-2-one; isobutyl methyl ketone:  
Rabbit: not irritating; OECD Test Guideline 404  
(literature value)



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

## Serious eye damage/eye irritation

**Eye irritation** 4-methylpentan-2-one; isobutyl methyl ketone:  
Rabbit: not irritating; OECD Test Guideline 405  
(literature value)

4-methylpentan-2-one; isobutyl methyl ketone:  
Derived from the classification according to Annex VI of Regulation (EC)  
1272/2008.  
Causes serious eye irritation.

## Respiratory or skin sensitisation

**Sensitisation** 4-methylpentan-2-one; isobutyl methyl ketone:  
Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406  
Based on available data, the classification criteria are not met.

## Germ cell mutagenicity

**Genotoxicity in vitro** 4-methylpentan-2-one; isobutyl methyl ketone:  
In vitro tests did not show mutagenic effects  
(literature value)

**Genotoxicity in vivo** 4-methylpentan-2-one; isobutyl methyl ketone:  
In vivo tests did not show mutagenic effects  
(literature value)

**Remarks** 4-methylpentan-2-one; isobutyl methyl ketone:  
Based on available data, the classification criteria are not met.

## Carcinogenicity

**Carcinogenicity** 4-methylpentan-2-one; isobutyl methyl ketone:  
Rat; Inhalation; 2 years; NOAEC: 1.840 mg/m<sup>3</sup>; OECD Test Guideline 451  
This effect is not relevant for human beings.

**Remarks** 4-methylpentan-2-one; isobutyl methyl ketone:  
Based on available data, the classification criteria are not met.

## Reproductive toxicity

**RemarksReproductive toxicity** 4-methylpentan-2-one; isobutyl methyl ketone:  
Based on available data, the classification criteria are not met.

**Effects on fertility** 4-methylpentan-2-one; isobutyl methyl ketone:  
Rat; inhalation (vapour); Two-generation study; OECD Test Guideline 416  
General Toxicity - Parent: NOAEL 1.000 ppm  
Fertility: NOAEL 2.000 ppm  
Early Embryonic Development: NOAEL 1.000 ppm  
(literature value)

**Remarks-Teratogenicity** 4-methylpentan-2-one; isobutyl methyl ketone:  
Based on available data, the classification criteria are not met.

**Effects on foetal development** 4-methylpentan-2-one; isobutyl methyl ketone:  
Rat; inhalation (vapour); OECD Test Guideline 414  
General Toxicity Maternal: NOAEL 1.000 ppm  
Teratogenicity: NOAEL 3.000 ppm  
Developmental Toxicity: NOAEL 3.000 ppm  
(literature value)

## STOT - single exposure

**Remarks** 4-methylpentan-2-one; isobutyl methyl ketone:  
Inhalation; Target Organs: Respiratory organs  
May cause respiratory irritation.

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### STOT - repeated exposure

<b>Remarks</b>	4-methylpentan-2-one; isobutyl methyl ketone: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
<b>Repeated dose toxicity</b>	4-methylpentan-2-one; isobutyl methyl ketone: Rat; Oral; 90-day NOAEL: 250 mg/kg (based on body weight and day) LOAEL: 1.000 mg/kg (based on body weight and day) Target Organs: Kidney (literature value)  4-methylpentan-2-one; isobutyl methyl ketone: Rat; Inhalation; 2 years; NOAEC: 1840 mg/m <sup>3</sup> Target Organs: Kidney (literature value)

### Aspiration hazard

<b>Aspiration toxicity</b>	4-methylpentan-2-one; isobutyl methyl ketone: Not applicable
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### Human experience

4-methylpentan-2-one; isobutyl methyl ketone:  
Repeated exposure may cause skin dryness or cracking.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

<b>Toxicity to fish</b>	4-methylpentan-2-one; isobutyl methyl ketone: LC50 (96 h) Danio rerio (zebra fish): > 100 mg/l ; static test; OECD Test Guideline 203 (literature value)
<b>Toxicity to fish - Chronic toxicity</b>	4-methylpentan-2-one; isobutyl methyl ketone: study scientifically unjustified Readily biodegradable. exposure considerations
<b>Toxicity to daphnia and other aquatic invertebrates</b>	4-methylpentan-2-one; isobutyl methyl ketone: EC50 (48 h) Daphnia magna (Water flea): > 100 mg/l ; static test; OECD Test Guideline 202 (literature value)
<b>Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity</b>	4-methylpentan-2-one; isobutyl methyl ketone: NOEC (21 d) Daphnia magna (Water flea): 30 mg/l; reproduction rate; semi-static test; (literature value)
<b>Toxicity to aquatic plants</b>	4-methylpentan-2-one; isobutyl methyl ketone: NOEC (7 d) Lemna gibba (gibbous duckweed): >= 146 mg/l ; Growth rate; semi-static test; (literature value)
<b>Toxicity to bacteria</b>	4-methylpentan-2-one; isobutyl methyl ketone: EC5 (16 h) Pseudomonas putida: 275 mg/l; static test; DIN 38412 (literature value)
<b>Toxicity to soil dwelling organisms</b>	4-methylpentan-2-one; isobutyl methyl ketone: The study is not necessary. Not expected to adsorb on soil.
<b>Toxicity to terrestrial flora</b>	4-methylpentan-2-one; isobutyl methyl ketone: The study is not necessary. Not expected to adsorb on soil.

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<b>Toxicity for other terrestrial non-mammalian fauna</b>	4-methylpentan-2-one; isobutyl methyl ketone: No data available
<b>12.2 Persistence and degradability</b>	
<b>Biodegradability</b>	4-methylpentan-2-one; isobutyl methyl ketone: Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301F (literature value)
<b>12.3 Bioaccumulative potential</b>	
<b>Bioaccumulation</b>	4-methylpentan-2-one; isobutyl methyl ketone: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.
<b>12.4 Mobility in soil</b>	
<b>Mobility</b>	4-methylpentan-2-one; isobutyl methyl ketone: Adsorption/Soil; Koc: 101,85; calculated (literature value) Mobile in soils
<b>12.5 Results of PBT and vPvB assessment</b>	
<b>Results of PBT assessment</b>	4-methylpentan-2-one; isobutyl methyl ketone: Based on available data, the classification criteria are not met.
<b>12.6 Other adverse effects</b>	
<b>General advice</b>	4-methylpentan-2-one; isobutyl methyl ketone: None known.

**SECTION 13: DISPOSAL CONSIDERATIONS**

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**13.1 Waste treatment methods**

<b>Product</b>	Following pre-treatment and observing the regulations for hazardous wastes, it must be taken to a permitted hazardous wastes landfill or hazardous wastes incinerator.
<b>Contaminated packaging</b>	Contaminated packaging should be emptied optimally and after being suitably cleaned returned for re-use.
<b>waste code of the European Union: EWC</b>	A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose.

**SECTION 14: TRANSPORT INFORMATION**

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**14.1 UN number**

ADR	1245
RID	1245
ADN	1245
IMDG	1245
ICAO/IATA	1245

**14.2 Proper shipping name**

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ADR	METHYL ISOBUTYL KETONE
RID	METHYL ISOBUTYL KETONE
ADN	METHYL ISOBUTYL KETONE
IMDG	METHYL ISOBUTYL KETONE
ICAO/IATA	METHYL ISOBUTYL KETONE

## 14.3 Transport hazard class

ADR	3
RID	3
ADN	3
IMDG	3
ICAO/IATA	3

## 14.4 Packing group

ADR	II
RID	II
ADN	II
IMDG	II
ICAO/IATA	II

## 14.5 Environmental hazards

ADR	Environmentally hazardous	no
RID	Environmentally hazardous	no
ADN	Environmentally hazardous	no
IMDG	Marine pollutant	no
ICAO/IATA	Environmentally hazardous	no

## 14.6 Special precautions for user

ADR	Hazard Identification Number	33
	Labels	3
	Tunnel restriction code	(D/E)
IMDG	Labels	3
	EmS Number 1	F-E
	EmS Number 2	S-D
ICAO/IATA	Labels	3

## 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks No information available.

## SECTION 15: REGULATORY INFORMATION

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

**Occupational restrictions** Employment restrictions for children and young workers in accordance with Directive 94/33/EC and the respective national provisions are to be observed.

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## NATIONAL/OTHER REGULATIONS

### Legislation on the control of major-accident hazards involving dangerous substances

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

list entry in the directive:: FLAMMABLE LIQUIDS; P5c

Qualifying quantity 1: 5.000 t; Qualifying quantity 2: 50.000 t;

## NOTIFICATION STATUS

Switzerland. Consolidated Inventory	CH INV	listed (product or constituents are listed)
US. Toxic Substances Control Act	TSCA	listed (product or constituents are listed)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	listed (product or constituents are listed)
Japan. Kashin-Hou Law List	ENCS (JP)	listed (product or constituents are listed)
Japan. Industrial Safety & Health Law (ISHL) List	ISHL (JP)	listed (product or constituents are listed)
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances (IECSC)	INV (CN)	listed (product or constituents are listed)

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

## 15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

## SECTION 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3.

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

### Safety datasheet sections which have been updated:

11. Toxicological information

### Further information:

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

## Key or legend to abbreviations and acronyms used in the safety data sheet

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
AICS	Australian Inventory of Chemical Substances
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials (US)
BCF	Bioconcentration factor
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
DIN	Deutsches Institut für Normung
DNEL	Derived No-Effect Level
DSL	Domestic Substances List
EC...	Effect concentration ... %
ENCS	Existing Notified Chemical Substances (Japan)
EWC	European Waste Catalogue
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISHL	Industrial Safety and Health Law (Japan)
ISO	International Organization for Standardization
IUAPC	International Union of Pure and Applied Chemistry
KECI	Korea Existing Chemicals Inventory
LC...	Lethal Concentration, ...%
LD...	Lethal Dose, ...%
MARPOL	International Convention for the Prevention of Pollution From Ships
NDSL	Non-Domestic Substances List
NOAEL	no observable adverse effect level
NOEL/NOEC	No Observed-effect level/concentration
NZIoC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bioaccumulative, toxic
PICCS	Philippine Inventory of Chemicals and Chemical Substances
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport international ferroviaire de marchandises dangereuses
TG	Test Guideline
TRGS	Technische Regeln für Gefahrstoffe
TSCA	Toxic Substances Control Act
vPvB	very persistent, very bioaccumulative
WGK	Wassergefährdungsklasse

## Annex

Attachments to the safety data sheet and/or lists of the identified uses for the listed substances can be downloaded using the internet links below.

[http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/00000009285\\_EN\\_01.pdf](http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/00000009285_EN_01.pdf)