

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**

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

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

Use	Solvent raw material for printing inks and printing ink additives raw material for photochemicals
Uses advised against	

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number

Emergency telephone number	+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)
-----------------------------------	--

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

METHYLISOBUTYLKETON

Version: 11.00

Revision Date 05.04.2019

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

METHYLISOBUTYLKETON

Version: 11.00

Revision Date 05.04.2019

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**

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

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed	Risks: No information available.
--	----------------------------------

4.3 Indication of any immediate medical attention and special treatment needed

Indication of any immediate medical attention and special treatment needed	Treatment: For specialist advice physicians should contact the Poisons Information Service.
---	---

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

Suitable extinguishing media	Alcohol-resistant foam, Dry powder, Water spray, Carbon dioxide (CO ₂) in enclosed spaces
-------------------------------------	---

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	When fighting fires in enclosed spaces: caution, danger of suffocation! Flash back possible over considerable distance. Vapours may form explosive mixtures with air.
---	---

5.3 Advice for firefighters

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

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

Personal precautions	Ensure adequate ventilation. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.
-----------------------------	--

6.2 Environmental precautions

Environmental precautions	Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.
----------------------------------	--

METHYLISOBUTYLKETON

Version: 11.00

Revision Date 05.04.2019

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.

METHYLISOBUTYLKETON

Version: 11.00

Revision Date 05.04.2019

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	TWA	50 ppm	2009	ACGIH
METHYL ISOBUTYL KETONE	STEL	75 ppm	2009	ACGIH
METHYL ISOBUTYL KETONE	TWA	20 ppm	2009	ACGIH Notice of Intended Changes (NIC) t
METHYL ISOBUTYL KETONE	STEL	75 ppm	2009	ACGIH Notice of Intended Changes (NIC) t
HEXONE	REL REL	205 mg/m3 50 ppm	2005 2005	NIOSH Pocket Guide to Chemical Hazards
HEXONE	STEL STEL	300 mg/m3 75 ppm	2005 2005	NIOSH Pocket Guide to Chemical Hazards
HEXONE	PEL PEL	410 mg/m3 100 ppm	02 2006 02 2006	OSHA Table Z-1
HEXONE	TWA TWA	205 mg/m3 50 ppm	1989 1989	OSHA Table Z-1-A
HEXONE	STEL STEL	300 mg/m3 75 ppm	1989 1989	OSHA Table Z-1-A

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

Control parameters / Substance name	Typ	Control parameters	Update	Basis
4-METHYLPENTAN-2-ONE	TWA TWA	83 mg/m3 20 ppm	02 2006 02 2006	EU Exposure Limit Values
4-METHYLPENTAN-2-ONE	STEL STEL	208 mg/m3 50 ppm	02 2006 02 2006	EU Exposure Limit Values
4-METHYLPENTAN-2-ONE	TWA TWA	83 mg/m3 20 ppm	2014 2014	EU SCOELS
4-METHYLPENTAN-2-ONE	STEL STEL	208 mg/m3 50 ppm	2014 2014	EU SCOELS

BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS

Substance name	Control parameters	Sampling time	Update	Basis
METHYL ISOBUTYL KETONE (MIBK)	MIBK: 2 mg/l (Urine)	Sampling time: End of shift.	2009	ACGIH BEL

METHYLISOBUTYLKETON

Version: 11.00

Revision Date 05.04.2019

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 ³	
	dermal, Acute/short-term exposure - local effects		Not relevant / Not applicable
	Inhalation, Acute/short-term exposure - local effects	208 mg/m ³	
	dermal, long-term exposure - systemic effects	11,8 mg/kg Body weight/day	
	Inhalation, long-term exposure - systemic effects	83 mg/m ³	
	dermal, long-term exposure - local effects		Not relevant / Not applicable
	Inhalation, long-term exposure - local effects	83 mg/m ³	
	Consumers	dermal, Acute/short-term exposure - systemic effects	
Inhalation, Acute/short-term exposure - systemic effects		155,2 mg/m ³	
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 ³	
dermal, long-term exposure - systemic effects		4,2 mg/kg Body weight/day	
Inhalation, long-term exposure - systemic effects		14,7 mg/m ³	
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 ³		

METHYLISOBUTYLKETON

Version: 11.00

Revision Date 05.04.2019

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

ENVIRONMENTAL EXPOSURE CONTROLS

General advice	Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.
-----------------------	--

METHYLISOBUTYLKETON

Version: 11.00

Revision Date 05.04.2019

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

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

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

METHYLISOBUTYLKETON

Version: 11.00

Revision Date 05.04.2019

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 Distils 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)
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.

METHYLISOBUTYLKETON

Version: 11.00

Revision Date 05.04.2019

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 ³ ; OECD Test Guideline 451 This effect is not relevant for human beings.
Remarks	4-methylpentan-2-one; isobutyl methyl ketone: IARC: (International Agency for Research on Cancer) Group 2B: Possibly carcinogenic to humans

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.
----------------	---

STOT - repeated exposure

Remarks	4-methylpentan-2-one; isobutyl methyl ketone: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Repeated dose toxicity	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 ³ Target Organs: Kidney (literature value)

METHYLISOBUTYLKETON

Version: 11.00

Revision Date 05.04.2019

Aspiration hazard

Aspiration toxicity 4-methylpentan-2-one; isobutyl methyl ketone:
Not applicable

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

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	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)
Toxicity to fish - Chronic toxicity	4-methylpentan-2-one; isobutyl methyl ketone: study scientifically unjustified Readily biodegradable. exposure considerations
Toxicity to daphnia and other aquatic invertebrates	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)
Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity	4-methylpentan-2-one; isobutyl methyl ketone: NOEC (21 d) Daphnia magna (Water flea): 30 mg/l; reproduction rate; semi-static test; (literature value)
Toxicity to aquatic plants	4-methylpentan-2-one; isobutyl methyl ketone: NOEC (7 d) Lemna gibba (gibbous duckweed): >= 146 mg/l ; Growth rate; semi-static test; (literature value)
Toxicity to bacteria	4-methylpentan-2-one; isobutyl methyl ketone: EC5 (16 h) Pseudomonas putida: 275 mg/l; static test; DIN 38412 (literature value)
Toxicity to soil dwelling organisms	4-methylpentan-2-one; isobutyl methyl ketone: The study is not necessary. Not expected to adsorb on soil.
Toxicity to terrestrial flora	4-methylpentan-2-one; isobutyl methyl ketone: The study is not necessary. Not expected to adsorb on soil.
Toxicity for other terrestrial non-mammalian fauna	4-methylpentan-2-one; isobutyl methyl ketone: No data available

12.2 Persistence and degradability

Biodegradability 4-methylpentan-2-one; isobutyl methyl ketone:
Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301F
(literature value)

12.3 Bioaccumulative potential

Bioaccumulation 4-methylpentan-2-one; isobutyl methyl ketone:
Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

12.4 Mobility in soil

METHYLISOBUTYLKETON

Version: 11.00

Revision Date 05.04.2019

Mobility 4-methylpentan-2-one; isobutyl methyl ketone:
Adsorption/Soil; Koc: 101,85; calculated
(literature value)
Mobile in soils

12.5 Results of PBT and vPvB assessment

Results of PBT assessment 4-methylpentan-2-one; isobutyl methyl ketone:
Based on available data, the classification criteria are not met.

12.6 Other adverse effects

General advice 4-methylpentan-2-one; isobutyl methyl ketone:
None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product Following pre-treatment and observing the regulations for hazardous wastes, it must be taken to a permitted hazardous wastes landfill or hazardous wastes incinerator.

Contaminated packaging Contaminated packaging should be emptied optimally and after being suitably cleaned returned for re-use.

waste code of the European Union: EWC 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

14.1 UN number

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

14.2 Proper shipping name

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

METHYLISOBUTYLKETON

Version: 11.00

Revision Date 05.04.2019

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.

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;

METHYLISOBUTYLKETON

Version: 11.00

Revision Date 05.04.2019

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. 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

METHYLISOBUTYLKETON

Version: 11.00

Revision Date 05.04.2019

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
