

according to Regulation (EC) No 1907/2006

# KAESER-Sigma Fluid FG-460

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

#### 1.1. Product identifier

KAESER-Sigma Fluid FG-460

#### **Further trade names**

KAESER-Sigma Fluid FG-460 cooling oil for rotary screw compressors (FGL), 9.1462.0, 9.1463.0, 9.1463.00010

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

#### Use of the substance/mixture

cooling lubricant for rotary screw compressor.

## Uses advised against

Any non-intended use.

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

**Supplier** 

Company name: Kaeser Compressors Pty Ltd

Street: 45 Zenith Road Place: Dandenong Vic 3175 Telephone: +613 97915999

Msds.au@kaeser.com Responsible Department:

1.4. Emergency telephone Giftinformationszentrum Nord Goettingen + 49 (0) 551 19240 (Poison Information

number: Centre Goettingen)

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

## Regulation (EC) No. 1272/2008

Hazard categories:

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

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

#### Hazard statements

H412 Harmful to aquatic life with long lasting effects.

## **Precautionary statements**

Avoid release to the environment. P273

P501 Dispose of contents/container to local/regional/national/international regulations.

### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# **SECTION 3: Composition/information on ingredients**

## 3.2. Mixtures

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# **Hazardous components**

CAS No	Chemical name			Quar	ntity
	EC No	Index No	REACH No		
	GHS Classification				
9003-29-6	Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)		=<:	3 %	



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	Asp. Tox. 1; H304 EUH066			
68187-67-7	Amines, C12-14-alkyl, isooctyl pho	osphates		< 1 %
	269-119-5			
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1C, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H312 H302 H314 H318 H400 H410			

Full text of H and EUH statements: see section 16.

#### **Further Information**

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

### **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

### **General information**

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

#### After inhalation

Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skir

Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of skin irritation, consult a physician.

## After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.

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

After eye contact: No information available. Inhalation: No information available. Skin contact: No information available. ingestion.: No information available.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

# Suitable extinguishing media

In case of fire:

Carbon dioxide (CO2)

Dry extinguishing powder

Foam

In case of major fire and large quantities:

Water spray jet

### Unsuitable extinguishing media

High power water jet

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

Can be released in case of fire: Carbon dioxide (CO2). Carbon monoxide.

#### 5.3. Advice for firefighters

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

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

Co-ordinate fire-fighting measures to the fire surroundings.

### **SECTION 6: Accidental release measures**

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

For emergency responders: Avoid contact with skin, eyes and clothes. Wear personal protection equipment (refer to section 8).

For non-emergency personnel: Avoid contact with skin, eyes and clothes. Wear personal protection equipment (refer to section 8).

### 6.2. Environmental precautions

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

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

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

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

Clean contaminated objects and areas thoroughly observing environmental regulations.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

## Advice on safe handling

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

Wear personal protection equipment (refer to section 8).

# Advice on protection against fire and explosion

Usual measures for fire prevention.

#### Further information on handling

Advices on general occupational hygiene: See section 8.

# 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place.

Keep only in original container.

Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

#### Hints on joint storage

Do not store together with: Gas. Explosive hazardous substances. Oxidising substances (solid). Oxidising substances (liquid) Radioactive substances. Infectious substances.

Keep away from food, drink and animal feedingstuffs.

### Further information on storage conditions

Protect against: UV-radiation/sunlight. Heat.

### 7.3. Specific end use(s)

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refer to section 1.

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

#### 8.1. Control parameters

#### Additional advice on limit values

Air limit values:

Possibility of exposure to Aerosol (Mineral oil) Limit value (TLV-TWA) = 5 mg/m3 - Source: ACGIH Limit value (TLV-STEL) = 10 mg/m3 - Source: ACGIH

STEL: short-term exposure limits TLV: Threshold Limiting Value TWA: time weighted average

ACGIH: American Conference of Governmental Industrial Hygienists

Recommended monitoring procedures: DIN-/EN-Norms: EN 689, EN 14042, EN 482

### 8.2. Exposure controls





### Appropriate engineering controls

Vapours / aerosols should be extracted by suction directly at point of origin.

#### Protective and hygiene measures

Always close containers tightly after the removal of product. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Take off contaminated clothing.

Do not put any product-impregnated cleaning rags into your trouser pockets.

### Eye/face protection

Recommended eye protection articles: Eye glasses with side protection DIN EN 166

### Hand protection

In case of prolonged or frequently repeated skin contact: Wear suitable gloves. DIN EN 374

Suitable material: NBR (Nitrile rubber). Thickness of the glove material: 0,35 mm

Breakthrough time > 480 min.

Check leak tightness/impermeability prior to use. Breakthrough times and swelling properties of the material must be taken into consideration.

### Skin protection

Protective clothing. DIN-/EN-Norms: 469

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

### Respiratory protection

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

Respiratory protection necessary at: generation/formation of aerosols

Recommended respiratory protection articles: Combination filtering device (EN 14387) Type: AP-2/3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).



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### **Environmental exposure controls**

Do not allow uncontrolled discharge of product into the environment.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: Light yellow

Odour: Characteristic - odourless

Test result Test method

pH-Value: Not determined Not known

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Pour point:

Flash point:

Not determined

Not applicable

Not known

-39 °C

Not known

246 °C

COC

Sustaining combustion: No data available Not applicable

**Flammability** 

Solid: Not applicable
Gas: Not applicable

**Explosive properties** 

none

Lower explosion limits:

Upper explosion limits:

Not determined

Not determined

Ignition temperature: Not determined Not applicable

**Auto-ignition temperature** 

Gas: Not determined

Decomposition temperature: Not determined Not applicable

**Oxidizing properties** 

none

Vapour pressure: < 0,1 hPa Not known

(at 25 °C)
Vapour pressure:

Density (at 15 °C): 0,842 g/cm³ Not known

Bulk density: The product has not been tested. Not applicable

Water solubility: not miscible Not applicable

Solubility in other solvents

Not determined

Partition coefficient: The product has not been tested.

Viscosity / dynamic: 6,7 mPa·s calculated

(at 100 °C)

Viscosity / kinematic: 46 mm²/s Not known

(at 40 °C)

Flow time:

Vapour density:

Not determined Not applicable

Not determined Not applicable

Evaporation rate:

Not determined Not applicable



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Solvent separation test:

Solvent content:

Not determined

Not determined

9.2. Other information

Solid content: Not determined

Auto-ignition temperature: > 379°C

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

Reacts with: Oxidizing agents, strong.

# 10.4. Conditions to avoid

UV-radiation/sunlight. Heat

### 10.5. Incompatible materials

Oxidizing agents, strong.

## 10.6. Hazardous decomposition products

Can be released in case of fire: Carbon dioxide (CO2). Carbon monoxide.

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

#### Toxicocinetics, metabolism and distribution

No information available.

# **Acute toxicity**

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

CAS No	Chemical name				
	Exposure route	Dose		Species	Source
9003-29-6	Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)				
	oral	LD50	>10000 mg/kg	Rat	ECHA Dossier
	dermal	LD50	>2000 mg/kg	Rat	ECHA Dossier
	inhalation (4 h) vapour	LC50	[>19,17] mg/l	Rat	ECHA Dossier
68187-67-7	7 Amines, C12-14-alkyl, isooctyl phosphates				
	oral	LD50	> 200 mg/kg	Rat	ECHA Dossier
	dermal	ATE	1100 mg/kg		

# Irritation and corrosivity

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

Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene):

Serious eye damage/eye irritation:

Method: OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Species: Rabbit

Result / evaluation: Not an irritant. Literature information: ECHA Dossier

Amines, C12-14-alkyl, isooctyl phosphates:

Serious eye damage/eye irritation: Method: OECD Guideline 404

Species: Rabbit

Result / evaluation: strongly irritant. Literature information: ECHA Dossier

Irritant effect on the skin:

Method: OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Species: Rabbit

Result / evaluation: corrosive. Literature information: ECHA Dossier

### Sensitising effects

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

Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene):

Skin sensitisation:

Method: OECD Guideline 406

Species: Guinea pig

Result / evaluation: not sensitising. Literature information: ECHA Dossier

Amines, C12-14-alkyl, isooctyl phosphates:

Skin sensitisation:

Method: OECD Guideline 406

Species: Guinea pig

Result / evaluation: not sensitising. Literature information: ECHA Dossier

# Carcinogenic/mutagenic/toxic effects for reproduction

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

Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene):

In-vitro mutagenicity:

Method: OECD Guideline 471, OECD Guideline 473 Result: negative. Literature information: ECHA Dossier

In-vivo mutagenicity:

Method: OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Result: negative. Literature information: ECHA Dossier

Reproductive toxicity:

Method: OECD Guideline 421 Species: Rat. Exposure route: oral.

Result: NOAEL (P) = 1000 mg/kg. NOAEL (F1) = 1000 mg/kg. Literature information: ECHA Dossier

Developmental toxicity/teratogenicity: Method: OECD Guideline 422 Species: Rat. Exposure route: oral.

Result: NOAEL > 1000 mg/kg. Literature information: ECHA Dossier

Amines, C12-14-alkyl, isooctyl phosphates:

In-vitro mutagenicity:

Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay) Result / evaluation: negative. Literature information: ECHA Dossier

### STOT-single exposure

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



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# STOT-repeated exposure

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

Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene):

Subchronic oral toxicity: Method: OECD Guideline 408

Species: Rat

Exposure time: 90 d.

Result: NOAEL >= 1000 mg/kg; Literature information: ECHA Dossier

Subchronic inhalation toxicity:

Method: -Species: Rat

Exposure time: OECD Guideline 413

Result / evaluation: NOEC = 1000 mg/m³. Literature information: ECHA Dossier

#### **Aspiration hazard**

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

### Specific effects in experiment on an animal

There are no data available on the preparation/mixture itself.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose		[h]   [d]	Species	Source
9003-29-6	Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)					
	Acute algae toxicity	ErC50	>19,2 mg/l		Desmodesmus subspicatus (OECD 201)	ECHA Dossier
68187-67-7	Amines, C12-14-alkyl, isooctyl phosphates					
	Acute algae toxicity	ErC50	0,8 mg/l		Pseudokirchneriella subcapitata	ECHA Dossier
	Acute crustacea toxicity	EC50	17 mg/l	48 h	Daphnia magna	ECHA Dossier

## 12.2. Persistence and degradability

Due to its low solubility in water the product is almost completely mechanically separated in biological sewage plants.

CAS No	Chemical name					
	Method	Value	d	Source		
	Evaluation	•				
9003-29-6	Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)					
	OECD Guideline 310	93,9 %	28	ECHA Dossier		
	Easily biodegradable (concerning to the criteria of the OECD)					
68187-67-7	Amines, C12-14-alkyl, isooctyl phosphates					
	EU Method C.4-D	35%	28	ECHA Dossier		
	Not easily bio-degradable (according to OECD-criteria).					

## 12.3. Bioaccumulative potential

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
9003-29-6	Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	7,6-7,8
68187-67-7	Amines, C12-14-alkyl, isooctyl phosphates	73,6

### **BCF**

CAS No Chemical name	BCF	Species	Source	
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9003-29-6	Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	920-3340	Carp	ECHA Dossier	

#### 12.4. Mobility in soil

No data available

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Other adverse effects

No data available

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

#### Advice on disposal

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

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

130206 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS

05, 12 AND 19); waste engine, gear and lubricating oils; synthetic engine, gear and lubricating oils;

hazardous waste

#### Waste disposal number of used product

130206 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; synthetic engine, gear and lubricating oils;

hazardous waste

### Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE

CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances;

hazardous waste

## Contaminated packaging

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

# **SECTION 14: Transport information**

### Land transport (ADR/RID)

14.1. UN number:	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es):	No dangerous good in sense of these transport regulations.
14.4. Packing group:	No dangerous good in sense of these transport regulations.

#### Inland waterways transport (ADN)

14.1. UN number:	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es):	No dangerous good in sense of these transport regulations.
14.4. Packing group:	No dangerous good in sense of these transport regulations.

### Marine transport (IMDG)

14.1. UN number: No dangerous good in sense of these transport regulations.14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

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**14.3.** Transport hazard class(es): No dangerous good in sense of these transport regulations.

14.4. Packing group:

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: No dangerous good in sense of these transport regulations.
 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.
 14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.

14.4. Packing group:

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

Danger releasing substance: Not relevant

14.6. Special precautions for user

See section 8.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

## **SECTION 15: Regulatory information**

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

## **EU** regulatory information

2010/75/EU (VOC): Not determined 2004/42/EC (VOC): Not determined

Information according to 2012/18/EU

(SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

### Additional information

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. REACH 1907/2006 appendix XVII: Not relevant (Mixtures)

### **National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

**Additional information** 

Approval according to USDA H1/NSF, registry number 131272

## 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

### **SECTION 16: Other information**

#### Changes

Rev. 14.00; 01.06.2015, Initial release

Rev. 15.00; 29.11.2017, Changes in chapter: 1-16

Rev. 16.00: 26.09.2019. Changes in chapter: 2, 3, 8, 9, 11, 12, 15, 16

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen

AGW: Arbeitsplatzgrenzwert AVV: Abfallverzeichnisverordnung CAS Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of substances and mixtures

DNEL: Derived No Effect Level

d: day(s)

EAKV: Europäisches Abfallverzeichnis gemäß Entwurf Abfallverzeichnisverordnung



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EINECS: European Inventory of Existing Commercial chemical Substances

ELINCS: European LIst of Notified Chemical Substances

ECHA: European Chemicals Agency EWC: European Waste Catalogue

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

h: hour

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level NOAEC: No observed adverse effect level

NLP: No-Longer Polymers N/A: not applicable

OECD: Organisation for Economic Co-operation and Development

PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic

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

fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

REACH: Registration, Evaluation, Authorisation of Chemicals

SVHC: substance of very high concern TRGS Technische Regeln fuer Gefahrstoffe

**UN: United Nations** 

VOC: Volatile Organic Compounds

VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe

WGK: Wassergefaehrdungsklasse

### Relevant H and EUH statements (number and full text)

H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H318 Causes serious eye damage.

H400
 H410
 Very toxic to aquatic life.
 Very toxic to aquatic life with long lasting effects.
 H412
 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

## **Further Information**

H314

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Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:

Causes severe skin burns and eve damage.

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.



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

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