

# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

1.1 Product identifier

Product name: SILKOLENE ALL-IN-ONE SPRAY

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

Identified uses: Lubricant

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier FUCHS LUBRICANTS (UK) PLC.

> **New Century Street** ST1 5HU Hanley

Telephone: +44 (0) 1782 203700

**Contact Person:** Product Safety department

E-mail: product.safety@fuchs-oil.com

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UK NHS: Dial 111. Ireland NPIS: Dial +353 1 8092566. 1.4 Emergency telephone number:

SECTION 2: Hazards identification

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#### 2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

# Classification according to Regulation (EC) No 1272/2008 as amended.

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Aerosols Category 1 H222: Extremely flammable aerosol.

H229: Pressurized container: May burst if heated.

**Health Hazards** 

Skin irritation Category 2 H315: Causes skin irritation.

Serious eye irritation Category 2 H319: Causes serious eye irritation.

Specific Target Organ Toxicity - Category 3 H336: May cause drowsiness or dizziness.

Single Exposure

Specific Target Organ Toxicity - Category 1 H372: Causes damage to organs through pro-

Repeated Exposure longed or repeated exposure.

Aspiration Hazard Category 1 H304: May be fatal if swallowed and enters air-

ways.

**Environmental Hazards** 

Acute hazards to the aquatic Category 1 H400: Very toxic to aquatic life.

environment

environment

Chronic hazards to the aquatic Category 2 H411: Toxic to aquatic life with long lasting ef-

fects.

**Hazard summary** 

Physical Hazards: Flammable aerosol.

**Health Hazards** 

**Inhalation:** Has a narcotic effect.

**Ingestion:** If ingested, material may be aspirated into the lungs and cause chemical

pneumonitis. Treat appropriately.

2.2 Label Elements

Contains: White Spirit, low viscous



Signal Words: Danger

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H222: Extremely flammable aerosol. **Hazard Statement(s):** 

H229: Pressurized container: May burst if heated.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

H372: Causes damage to organs through prolonged or repeated expo-

H410: Very toxic to aquatic life with long lasting effects.

#### **Precautionary Statements**

Prevention: P102: Keep out of reach of children.

P210: Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

P211: Do not spray on an open flame or other ignition source.

P251: Do not pierce or burn, even after use.

P260: Do not breathe dust/fume/gas/mist/vapors/spray. P262: Do not get in eyes, on skin, or on clothing.

P273: Avoid release to the environment.

Storage: P410+P412: Protect from sunlight. Do not expose to temperatures

exceeding 50 °C/122°F.

Disposal: P501: Dispose of contents/container to an appropriate treatment and

disposal facility in accordance with applicable laws and regulations,

and product characteristics at time of disposal.

2.3 Other hazards: By handling of mineral oil products and chemical products no particular

> hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the envi-

ronment without control.

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

#### 3.2 Mixtures

General information: Mixture of active ingredients with propellant

Chemical name	Identifier	Concentration *	REACH Registra- tion No.	Notes
White Spirit, low viscous	EC: 919-446-0	50,00% - <100,00%	01-2119458049-33	
Mod. Alcohol	EINECS: 247-152-6	1,00% - <5,00%		
Butane	EINECS: 203-448-7	0% - <100,00%	01-2119474691-32	
Propane	EINECS: 200-827-9	0% - <100,00%	01-2119486944-21	
Isobutane (<0,1% 1,3-butadiene)	EINECS: 200-857-2	0% - <100,00%	01-2119485395-27	
ethoxylated amine	EINECS: 246-807-3	1,00% - <3,00%	01-2119510876-35	
Oleic acid derivative	EINECS: 203-749-3	0,10% - <1,00%	01-2119488991-20	
Heterocyclic N-compound	EINECS: 202-414-9	0,25% - <1,00%	01-2119777867-13	

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.



#### Classification

Chemical name	Identifier	Classification	
White Spirit, low viscous	EC: 919-446-0	CLP:	Asp. Tox. 1;H304, Flam. Liq. 3;H226, STOT SE 3;H336, Aquatic Chronic 2;H411, STOT RE 1;H372
Mod. Alcohol	EINECS: 247-152-6	CLP:	Acute Tox. 4;H302, Acute Tox. 4;H332
Butane	EINECS: 203-448-7	CLP:	Flam. Gas 1A;H220, Press. Gas Compr. Gas;H280
Propane	EINECS: 200-827-9	CLP:	Flam. Gas 1A;H220, Press. Gas Compr. Gas;H280
Isobutane (<0,1% 1,3-butadiene)	EINECS: 200-857-2	CLP:	Flam. Gas 1A;H220, Press. Gas Compr. Gas;H280
ethoxylated amine	EINECS: 246-807-3	CLP:	Acute Tox. 4;H302, Skin Corr. 1B;H314, Aquatic Acute 1;H400, Aquatic Chronic 1;H410, Eye Dam. 1;H318; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 1
Oleic acid derivative	EINECS: 203-749-3	CLP:	Eye Dam. 1;H318, Aquatic Acute 1;H400, Acute Tox. 4;H332, Skin Irrit. 2;H315
Heterocyclic N-compound	EINECS: 202-414-9	CLP:	Skin Corr. 1C;H314, Eye Dam. 1;H318, STOT RE 2;H373, Aquatic Acute 1;H400, Aquatic Chronic 1;H410, Acute Tox. 4;H302; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 1

CLP: Regulation No. 1272/2008.

For the wording of the listed hazard statements refer to section 16.

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

General: Instantly remove any clothing soiled by the product.

4.1 Description of first aid measures

Inhalation: Supply fresh air; consult doctor in case of symptoms.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention.

**Skin Contact:** Immediately flush with plenty of water for at least 15 minutes while remov-

ing contaminated clothing and shoes. Wash contaminated clothing before

reuse. Get medical attention.

Ingestion: Call a physician or poison control center immediately. Rinse mouth. Never

> give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do NOT induce vomiting.

Call a POISON CENTER/doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and

delayed:

Causes serious eye irritation. Causes skin irritation. If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat

appropriately. Dizziness Freeze burns

4.3 Indication of any immediate medical attention and special treatment needed

Get medical attention if symptoms occur.

# **SECTION 5: Firefighting measures**

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5.1 Extinguishing media

Suitable extinguishing me-

dia:

CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant add-

Unsuitable extinguishing

media:

Water with a full water jet.

5.2 Special hazards arising from the substance or mixture:

Danger of explosion with aerosol cans.

5.3 Advice for firefighters

Special fire fighting proce-

dures:

Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water inaccordance with official regulations. Collect contaminated fire fighting water separately. It must not enter

drains.

Special protective equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

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

6.1 Personal precautions, protective equipment and emergency procedures:

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

6.2 Environmental Precautions:

Avoid release to the environment. Prevent further leakage or spillage if safe

to do so.

6.3 Methods and material for containment and cleaning up:

Scrape up spillage or absorb with absorbing material. Stop the flow of material, if this is without risk. Dispose of the material collected according to regulations.

6.4 Reference to other sections:

See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

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

7.1 Precautions for safe handling:

Avoid contact with eyes. Wash hands thoroughly after handling. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Avoid contact with skin. Avoid contact with flame and heat source, prevent contact with direct sunlight Use only in well-ventilated areas.

7.2 Conditions for safe storage, including any incompatibilities:

Store locked up. Local regulations concerning handling and storage of waterpolluting products have to be followed. Local regulations for the storage and handling of aerosol cans and flammable liquids have to be kept. Keep away from heat/sparks/hot surfaces. - No smoking.

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7.3 Specific end use(s): Not applicable

**Storage Class:** 2 B, Aerosols

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

#### 8.1 Control Parameters

Occupational Exposure Limits

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Chemical name	Туре	Exposure Lin	nit Values	Source
Butane	TWA	600 ppm	1.450 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Butane	STEL	750 ppm	1.810 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Mod. Alcohol	TWA	50 ppm	237 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Mod. Alcohol	STEL	75 ppm	356 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)

# 8.2 Exposure controls

Appropriate engineering controls:

Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

# Individual protection measures, such as personal protective equipment

**General information:** Wash hands before breaks and after work. Use personal protective equip-

> ment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be ad-

hered to inhandling the chemicals or the mineral oil products.

**Eye/face protection:** Safety glasses (EN 166) recommended during refilling. Avoid contact with

eyes. Avoid contact with skin and eyes. Goggles/face shield are recom-

mended. If risk of splashing, wear safety goggles or face shield.

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Skin protection

Hand Protection: Material: Nitrile butyl rubber (NBR).

Min. Breakthrough time: >= 480 min

Recommended thickness of the material: >= 0,38 mm

Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufactur-

er of the protective gloves and has to be observed.

Other: Do not carry cleaning cloths impregnated with the product in trouser pock-

ets. Wear suitable protective clothing.

**Respiratory Protection:** Ensure good ventilation/exhaustion at the workplace. Avoid breathing va-

pour/ aerosol.

Thermal hazards: Not known.

Hygiene measures: Always observe good personal hygiene measures, such as washing after

> handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated foot-

wear that cannot be cleaned.

**Environmental Controls:** No data available.

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

# 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state: Aerosols Form: Aerosols Color: Light brown Odor: Characteristic

**Odor Threshold:** Not applicable for mixtures

:Ha Not applicable

Freezing point: Not applicable for mixtures

**Boiling Point:** Value not relevant for classification Flash Point: Value not relevant for classification

**Evaporation Rate:** Not applicable for mixtures

Flammability (solid, gas): Value not relevant for classification

Flammability Limit - Upper (%)-: 9,5 %(V) Flammability Limit - Lower (%)-: 1,8 %(V)

Vapor pressure: Not applicable for mixtures Vapor density (air=1): Not applicable for mixtures

Density: 0,70 g/cm3 (15 °C)

Solubility(ies)

Solubility in Water: Insoluble in water Solubility (other): No data available.

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Partition coefficient (n-octanol/water): Not applicable for mixtures

**Autoignition Temperature:** Value not relevant for classification **Decomposition Temperature:** Value not relevant for classification Flow time Value not relevant for classification **Explosive properties:** Value not relevant for classification Oxidizing properties: Value not relevant for classification

9.2 Other information No data available.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity: Stable under normal use conditions.

10.2 Chemical Stability: Stable under normal use conditions.

10.3 Possibility of hazardous

reactions:

Stable under normal use conditions.

10.4 Conditions to avoid: Stable under normal use conditions.

10.5 Incompatible Materials: Strong oxidizing substances. Strong acids. Strong bases.

10.6 Hazardous Decomposition

**Products:** 

Thermal decomposition or combustion may liberate carbon oxides and oth-

er toxic gases or vapors.

### **SECTION 11: Toxicological information**

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: No data available.

**Skin Contact:** Causes skin irritation.

Eye contact: Causes eye irritation.

### 11.1 Information on toxicological effects

### **Acute toxicity**

Oral

Product: ATEmix: 25.888 mg/kg

Specified substance(s)

White Spirit, low viscous LD 50 (Rat): > 15.000 mg/kg

Mod. Alcohol LD 50 (Rat): 1.660 mg/kg

LD 50 (Rat): 1.350 mg/kg ethoxylated amine

Oleic acid derivative LD 50 (Rat): 9.200 mg/kg

LD 50 (Rat): 1.265 mg/kg (OECD 401) Heterocyclic N-compound

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Dermal

**Product:** 

Not classified for acute toxicity based on available data.

Inhalation

**Product:** ATEmix: 366,67 mg/l

Vapour

Specified substance(s)

White Spirit, low viscous LC 50 (Rat, 4 h): > 13,1 mg/l

Butane LC 50 (Rat, 4 h): 658 mg/l

Gas

Oleic acid derivative LC 50 (Rat, 4 h): 1,37 mg/l

Dusts, mists and fumes

Skin Corrosion/Irritation:

Product:

Based on available data, the classification criteria are met.

Specified substance(s)

Oleic acid derivative

OECD 404 (Rabbit):

Irritating.

Heterocyclic N-compound

OECD 404 (Rabbit):

Corrosive.

Serious Eye Damage/Eye Irritation:

**Product:** Based on available data, the classification criteria are met.

Specified substance(s)

Heterocyclic N-compound OECD 405 (Rabbit):

Corrosive.

**Respiratory or Skin Sensitization:** 

**Product:** Skin sensitizer: Based on available data, the classification criteria are not

met.

Respiratory sensitizer: Based on available data, the classification criteria

are not met.

Specified substance(s)

Oleic acid derivative

No sensitizing effect (guinea pig); OECD 406

Heterocyclic N-compound

No sensitizing effect (guinea pig); OECD 406

**Germ Cell Mutagenicity** 

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

Carcinogenicity

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

Reproductive toxicity

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

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**Specific Target Organ Toxicity - Single Exposure** 

**Product:** Based on available data, the classification criteria are met.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** Based on available data, the classification criteria are met.

**Aspiration Hazard** 

**Product:** May be fatal if swallowed and enters airways.

Other adverse effects: No data available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

**Acute toxicity** 

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

available data, the classification criteria are met.

**Fish** 

Specified substance(s)

White Spirit, low viscous LC 50 (Fish, 96 h): 10 - 30 mg/l

Propane LC 50 (Fish, 96 h): > 1.000 mg/l

Isobutane (<0,1% 1,3-

butadiene)

LC 50 (Fish, 96 h): 28 mg/l

ethoxylated amine LC 50 (Fish, 96 h): 0,1 mg/l (OECD 203)

Oleic acid derivative LC 50 (Fish, 96 h): 3,2 - 4,6 mg/l

Heterocyclic N-compound LC 50 (Fish, 96 h): 0,3 mg/l (OECD 203)

Aquatic Invertebrates Specified substance(s)

White Spirit, low viscous EC 50 (Water Flea, 48 h): 10 - 20 mg/l (OECD 202)

Mod. Alcohol EC 50 (Water Flea, 48 h): 267 mg/l

Isobutane (<0,1% 1,3-

butadiene)

EC 50 (Water Flea, 48 h): 16,3 mg/l

ethoxylated amine EC 50 (Water Flea, 48 h): 0,043 mg/l (OECD 202)

Oleic acid derivative EC 50 (Water Flea, 48 h): 0,53 mg/l

Heterocyclic N-compound EC 50 (Water Flea, 48 h): 0,136 mg/l (OECD 202)

Chronic ToxicityProduct: Based on available data, the classification criteria are met.

Toxicity to Aquatic Plants Specified substance(s)

White Spirit, low viscous EC 50 (Alga, 72 h): 4,6 - 10 mg/l (OECD 201)

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Mod. Alcohol LC 50 (Alga, 96 h): 395 mg/l

Isobutane (<0,1% 1,3-

butadiene)

EC 50 (Alga, 72 h): 8,6 mg/l

ethoxylated amine EC 50 (Alga, 72 h): 0,0867 mg/l (OECD 201)

Oleic acid derivative EC 50 (Alga, 72 h): 5,1 mg/l

Heterocyclic N-compound EC 50 (Alga, 72 h): 0,03 mg/l (OECD 201)

NOEC (Alga, 72 h): 0,11 mg/l

## 12.2 Persistence and Degradability

Biodegradation

**Product:** Not applicable for mixtures

Specified substance(s)

Oleic acid derivative 85 % (28 d, OECD 301B)

Heterocyclic N-compound (OECD 301B) The product is not biodegradable.

12.3 Bioaccumulative potential

**Product:** Not applicable for mixtures

12.4 Mobility in soil:

**Product:** Not applicable for mixtures

12.5 Results of PBT and vPvB

assessment:

The product does not contain any substances fulfilling the PBT/vPvB criteria.

**12.6 Other adverse effects:** Very toxic to aquatic organisms. Toxic to aquatic life with long lasting ef-

fects.

**Water Hazard Class** 

(WGK):

WGK 2: significantly water-endangering.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

**General information:** Dispose in accordance with all applicable regulations.

**Disposal methods:** Discharge, treatment, or disposal may be subject to national, state, or local

laws. Do not allow to enter drains, sewers or watercourses.

**European Waste Codes** 

16 05 04\*: Gases in pressure containers (including halons) containing

dangerous substances.

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## **SECTION 14: Transport information**

# ADR/RID

14.1 UN Number: UN 1950 14.2 UN Proper Shipping Name: AEROSOLS

14.3 Transport Hazard Class(es)

Class: 2
Label(s): 2.1
Hazard No. (ADR): Tunnel restriction code: (D)

14.4 Packing Group:

14.5 Environmental hazards: Dangerous for the environment

14.6 Special precautions for user: -

#### **ADN**

14.1 UN Number: UN 1950 14.2 UN Proper Shipping Name: AEROSOLS

14.3 Transport Hazard Class(es)

Class: 2
Label(s): 2.1
14.3 Packing Group: -

14.5 Environmental hazards: Dangerous for the environment

14.6 Special precautions for user: -

## **IMDG**

14.1 UN Number: UN 1950 14.2 UN Proper Shipping Name: AEROSOLS

14.3 Transport Hazard Class(es)

Class: 2.1 Label(s): 2.1 EmS No.: F-D, S-U

14.3 Packing Group: 14.5 Environmental hazards: -

14.6 Special precautions for user: –

#### IATA

14.1 UN Number: UN 1950

14.2 Proper Shipping Name: Aerosols, flammable

14.3 Transport Hazard Class(es):

Class: 2.1
Label(s): 2.1
14.4 Packing Group: -

14.5 Environmental hazards: Dangerous for the environment

14.6 Special precautions for user: -

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable.

# **SECTION 15: Regulatory information**

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

#### **EU Regulations**

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Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

15.2 Chemical safety as-

No Chemical Safety Assessment has been carried out.

sessment:

## DIRECTIVE 2012/18/EU (SEVESO III) on the control of major-accident hazards involving dangerous substances

The product falls into the scope of the SEVESO III Directive.

Hazard category in accordance with Regulation (EC) No 1272/2008	Qualifying quantity for the application of Lower-tier requirements:	Qualifying quantity for the application of Upper-tier requirements:
P3a: Flammable aerosols Category 1 or 2 containing flammable gases Category 1 or 2 or flammable liquids Category 1	150 t	500 t
E1: Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1	100 t	200 t

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

**Revision Information:** Vertical lines in the margin indicate an amendment.

#### Wording of the H-statements in section 2 and 3

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H226	Flammable liquid and vapor.
H229	Pressurized container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated expo-
	sure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

The classification complies with the current EU lists; however, it has been supplemented with expert literature information and information provided by/about our company. It was derived from the test data and/or the applica-

tion of the conventional method.

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The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.

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