

niroklar 5000

Version: 3 / GB

Replaces Version: 2 / GB

Date revised: 06.02.2025

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

1.1. Product identifier

niroklar 5000

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

Identified Uses

PC35

Washing and cleaning products (including solvent based products)

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Chemische Fabrik Dr. Weigert GmbH & Co. KG

Mühlenhagen 85

D-20539 Hamburg

Telephone no. +49 40 789 60 0

Fax no. +49 40 789 60 120

www.drweigert.com

E-mail address of person responsible for this SDS:

sida@drweigert.de

1.4. Emergency telephone number

Emergency telephone number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

Met. Corr. 1 H290

Skin Corr. 1 H314

Eye Dam. 1 H318

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

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H290

May be corrosive to metals.

H314

Causes severe skin burns and eye damage.

Precautionary statements

P280

Wear protective gloves/protective clothing/eye protection/face protection.

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P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor.
Dispose only when container is empty and closed. For disposal of product residues, refer to safety data sheet.

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

contains formic acid; sulphuric acid; phosphoric acid; cumenesulphonic acid

2.3. Other hazards

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients

formic acid

CAS No. 64-18-6
EINECS no. 200-579-1
Registration no. 01-2119491174-37
Concentration ≥ 25 < 50 %
Classification (Regulation (EC) No. 1272/2008)
Skin Corr. 1A H314

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

Eye Irrit. 2	H319	$\geq 2 < 10$ %
Skin Corr. 1A	H314	≥ 90 %
Skin Corr. 1B	H314	$\geq 10 < 90$ %
Skin Irrit. 2	H315	$\geq 2 < 10$ %

ATE oral 730 mg/kg
ATE inhalative, Vapors 7,85 mg/l

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note B

phosphoric acid

CAS No. 7664-38-2
EINECS no. 231-633-2
Registration no. 01-2119485924-24
Concentration ≥ 1 < 10 %
Classification (Regulation (EC) No. 1272/2008)
Met. Corr. 1 H290
Skin Corr. 1B H314
Eye Dam. 1 H318

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

Eye Irrit. 2	H319	$\geq 10 < 25$ %
Skin Corr. 1B	H314	≥ 25 %
Skin Irrit. 2	H315	$\geq 10 < 25$ %

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note B

sulphuric acid

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CAS No. 7664-93-9
EINECS no. 231-639-5
Registration no. 01-2119458838-20
Concentration ≥ 1 < 10 %
Classification (Regulation (EC) No. 1272/2008)
Skin Corr. 1A H314

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

Eye Irrit. 2 H319 $\geq 5 < 15$ %
Skin Corr. 1A H314 ≥ 15 %
Skin Irrit. 2 H315 $\geq 5 < 15$ %

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note B

fatty alcohol C12-C14, ethoxylated, propoxylated

CAS No. 68439-51-0
Concentration ≥ 1 < 10 %
Classification (Regulation (EC) No. 1272/2008)
Aquatic Chronic 3 H412

cumenesulphonic acid

CAS No. 16066-35-6
EINECS no. 240-210-1
Registration no. 01-2119538809-24
Concentration ≥ 1 < 10 %
Classification (Regulation (EC) No. 1272/2008)
Skin Corr. 1C H314
Eye Dam. 1 H318

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

Skin Irrit. 2 H315 $\geq 1 \leq 20$ %
Eye Dam. 1 H318 $\geq 1 \leq 20$ %

ATE oral 1.410 mg/kg

Other information

Complete text of hazard statements in chapter 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, soaked clothing immediately and dispose of safely. Clean body thoroughly (bath, shower). In any case show the physician the Safety Data Sheet.

After inhalation

Ensure supply of fresh air. When spray fog inhaled, seek medical aid.

After skin contact

After contact with skin, wash immediately with plenty of water. Take medical treatment.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Summon a doctor immediately.

After ingestion

If swallowed, seek medical advice immediately and show this container or label. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

Adhere to personal protective measures when giving first aid

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First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

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

Hints for the physician / hazards

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Dispose of absorbed material in accordance with the regulations.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid formation of aerosols. Observe the usual precautions for handling chemicals. Keep container tightly closed. Use only acid resistant equipment.

Advice on protection against fire and explosion

The product is not combustible.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value > -20 < 30 °C

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Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage classes

Storage class according to TRGS 510 8B Non-combustible corrosive hazardous substances

7.3. Specific end use(s)

no data

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

sulphuric acid ... %

List	IOELV	
Type	IOELV	
Value	0,05	mg/m ³

phosphoric acid ... %

List	EH40	
Type	WEL	
Value	1	mg/m ³
Short term exposure limit	2	mg/m ³

phosphoric acid ... %

List	IOELV	
Type	IOELV	
Value	1	mg/m ³
Short term exposure limit	2	mg/m ³

formic acid ... %

List	EH40			
Type	WEL			
Value	9.6	mg/m ³	5	ppm(V)

formic acid ... %

List	IOELV			
Type	IOELV			
Value	9	mg/m ³	5	ppm(V)

Other information

There are not known any further control parameters.

8.2. Exposure controls

General protective and hygiene measures

Hold eye wash fountain available. Hold emergency shower available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.
Particle filter P2

Hand protection

Chemical resistant gloves	
Use	Permanent hand contact
Appropriate Material	neoprene
Material thickness	>= 0,65 mm

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Breakthrough time	>	480	min
Appropriate Material	butyl		
Material thickness	>=	0,7	mm
Breakthrough time	>	480	min
Use	Short-term hand contact		
Appropriate Material	nitrile		
Material thickness	>=	0,28	mm

Eye protection

Safety glasses with side protection shield; Eye protection must comply with EN 166.

Body protection

Clothing as usual in the chemical industry. Protective shoes

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	yellow
Odour	pungent

Melting point

Remarks	not determined
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Freezing point

Remarks	not determined
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Boiling point or initial boiling point and boiling range

Remarks	not determined
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Flammability

evaluation	Not applicable
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Upper and lower explosive limits

Remarks	Not applicable
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Flash point

Remarks	Not applicable
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Auto-ignition temperature

Remarks	Not applicable
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Decomposition temperature

Remarks	
Remarks	not determined

pH value

Value	<	1	
Temperature		20	°C

Viscosity

Remarks	not determined
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Solubility(ies)

Remarks	not determined
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Partition coefficient n-octanol/water (log value)

Remarks	not determined
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Vapour pressure

Remarks	not determined
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Density and/or relative density

Value	1,15	g/cm ³
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Temperature 20 °C

Relative vapour density

Remarks not determined

9.2. Other information

Odour threshold

Remarks not determined

Evaporation rate (ether = 1) :

Remarks not determined

Solubility in water

Remarks miscible in all proportions

Explosive properties

evaluation no

Oxidising properties

evaluation None known

Other information

None known

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No hazardous reactions known.

10.5. Incompatible materials

Reactions with metals, with evolution of hydrogen. Reactions with alkalis.

10.6. Hazardous decomposition products

Irritant gases/vapours

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

ATE > 2000 mg/kg
Method calculated value (Regulation (EC) No. 1272/2008)
Remarks Based on available data, the classification criteria are not met.

Acute oral toxicity (Components)

phosphoric acid ... %

Species rat
LD50 2600 mg/kg

formic acid ... %

Species rat
LD50 730 mg/kg
Method OECD 401

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cumenesulphonic acid

Species	rat		
LD50		1410	mg/kg
Source	ECHA		

fatty alcohol C12-C14, ethoxylated, propoxylated

Species	rat		
LD50	>	2000	mg/kg
Method	EEC 84/449, B.1		

Acute dermal toxicity

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

Acute dermal toxicity (Components)

phosphoric acid ... %

Species	rabbit		
LD50		2740	mg/kg

fatty alcohol C12-C14, ethoxylated, propoxylated

Species	rat		
LD50	>	5000	mg/kg

Acute inhalational toxicity

ATE		23,68	mg/l
Administration/Form	Vapors		
Method	calculated value (Regulation (EC) No. 1272/2008)		
Remarks	Based on available data, the classification criteria are not met.		

Acute inhalative toxicity (Components)

formic acid ... %

Species	rat		
LC50		7,85	mg/l
Duration of exposure	4	h	
Administration/Form	Vapors		

Skin corrosion/irritation

evaluation	corrosive
Remarks	The classification criteria are met.

Skin corrosion/irritation (Components)

cumenesulphonic acid

Species	rabbit		
Duration of exposure	4	h	
Observation Period	7	Days	
evaluation	corrosive		
Method	OECD 404		
Source	ECHA		

Serious eye damage/irritation

evaluation	corrosive
Remarks	The classification criteria are met.

Serious eye damage/irritation (Components)

cumenesulphonic acid

Species	rabbit eye		
Duration of exposure	30	s	
Observation Period	14	Days	
evaluation	corrosive		
Source	ECHA		

Sensitization

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

Sensitization (Components)

cumenesulphonic acid

evaluation

non-sensitizing

Source

ECHA

Subacute, subchronic, chronic toxicity

Remarks

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

Mutagenicity

Remarks

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

Mutagenicity (Components)

cumenesulphonic acid

evaluation

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

Source

ECHA

Reproductive toxicity

Remarks

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

Reproduction toxicity (Components)

cumenesulphonic acid

evaluation

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

Source

ECHA

Carcinogenicity

Remarks

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

Carcinogenicity (Components)

cumenesulphonic acid

evaluation

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

Source

ECHA

Specific Target Organ Toxicity (STOT)

Single exposure

Remarks

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

Repeated exposure

Remarks

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

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties with respect to humans

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

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

Other information

There is no data available on the product apart from the information given in this subsection.

SECTION 12: Ecological information

12.1. Toxicity

General information

not determined

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Fish toxicity (Components)

sulphuric acid ... %

Species	mosquito fish		
LC50	42		mg/l
Duration of exposure	96	h	

phosphoric acid ... %

Species	mosquito fish		
LC50	138		mg/l
Duration of exposure	96	h	

formic acid ... %

Species	zebra fish (Brachydanio rerio)		
LC50	130		mg/l
Duration of exposure	96	h	
Method	OECD 203		

cumenesulphonic acid

Species	golden orfe (Leuciscus idus)		
LC50	325		mg/l
Duration of exposure	96	h	
Method	OECD 203		
Source	ECHA		

fatty alcohol C12-C14, ethoxylated, propoxylated

Species	guppy (Poecilia reticulata)		
LC50	1	to 10	mg/l
Duration of exposure	96	h	
Method	OECD 203		

Daphnia toxicity (Components)

sulphuric acid ... %

Species	Daphnia magna		
EC50	29		mg/l
Duration of exposure	24	h	

phosphoric acid ... %

Species	Daphnia magna		
EC50	> 100		mg/l
Duration of exposure	48	h	
Method	OECD 202		

formic acid ... %

Species	Daphnia magna		
EC50	365		mg/l
Duration of exposure	48	h	
Method	OECD 202		

cumenesulphonic acid

Species	Daphnia magna		
EC50	= 100		mg/l
Duration of exposure	48	h	
Method	OECD 202		
Source	ECHA		

fatty alcohol C12-C14, ethoxylated, propoxylated

Species	Daphnia magna		
EC50	1	to 10	mg/l
Duration of exposure	48	h	
Method	OECD 202		

Algae toxicity (Components)

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phosphoric acid ... %

Species	Scenedesmus subspicatus	
EC50	> 100	mg/l
Duration of exposure	72 h	
Method	OECD 201	

formic acid ... %

Species	Selenastrum capricornutum	
EC50	1240	mg/l
Duration of exposure	72 h	
Method	OECD 201	

cumenesulphonic acid

Species	Selenastrum capricornutum	
EC50	73	mg/l
Duration of exposure	72 h	
Method	OECD 201	
Source	ECHA	

fatty alcohol C12-C14, ethoxylated, propoxylated

Species	Scenedesmus subspicatus	
EC50	1 to 10	mg/l
Duration of exposure	72 h	
Method	OECD 201	

Bacteria toxicity (Components)

sulphuric acid ... %

Species	activated sludge	
EC50	58	mg/l
Duration of exposure	120 h	

formic acid ... %

Species	activated sludge	
EC20	> 1000	mg/l
Duration of exposure	0,5 h	

cumenesulphonic acid

Species	activated sludge	
EC10	580	mg/l
Duration of exposure	3 h	
Source	ECHA	

fatty alcohol C12-C14, ethoxylated, propoxylated

Species	Pseudomonas putida	
EC0	> 100	mg/l
Method	OECD 209	

12.2. Persistence and degradability

General information

not determined

Biodegradability (Components)

cumenesulphonic acid

evaluation	Readily biodegradable (according to OECD criteria)
Source	ECHA

fatty alcohol C12-C14, ethoxylated, propoxylated

evaluation	Readily biodegradable (according to OECD criteria)
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12.3. Bioaccumulative potential

General information

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not determined

Partition coefficient n-octanol/water (log value)

Remarks

not determined

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

General information

not determined

Results of PBT and vPvB assessment

The product contains no PBT substances

The product contains no vPvB substances.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the environment

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

12.7. Other adverse effects

General information

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

EWC waste code 18 01 06* chemicals consisting of or containing dangerous substances

EWC waste code 20 01 29* detergents containing dangerous substances

The listed waste code numbers, according to the European Waste Catalogue (EWC), are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

Disposal recommendations for packaging

EWC waste code 15 01 02 plastic packaging

Completely emptied packagings can be given for recycling.

EWC waste code 15 01 10* packaging containing residues of or contaminated by dangerous substances

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
IMDG-Code segregation group		1 Acids	
14.1. UN number or ID number	1760	1760	1760
14.2. UN proper shipping name	CORROSIVE LIQUID, N.O.S. (formic acid, sulphuric acid)	CORROSIVE LIQUID, N.O.S. (formic acid, sulphuric acid)	CORROSIVE LIQUID, N.O.S. (formic acid, sulphuric acid)
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	II	II	II
Limited Quantity	1 I	1 I	
Transport category	2		
14.5. Environmental hazards		no	

Information for all modes of transport

14.6. Special precautions for user

See Sections 6 to 8

Other information

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

Ingredients (Regulation (EC) No 648/2004)

less than 5 %:

phosphates, non-ionic surfactants

Other information

The product does not contain substances of very high concern (SVHC).

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

The product does not contain substances according to: Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

15.2. Chemical safety assessment

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

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SECTION 16: Other information

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

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

Met. Corr. 1	H290	Expert judgement
Skin Corr. 1	H314	Calculation method
Eye Dam. 1	H318	Calculation method

Hazard statements listed in Chapter 2/3

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 2/3

Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
Skin Corr. 1	Skin corrosion, Category 1
Skin Corr. 1A	Skin corrosion, Category 1A
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Corr. 1C	Skin corrosion, Category 1C

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route
RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses
IMDG: International Maritime Code for Dangerous Goods
ICAO: International Civil Aviation Organization
IATA: International Air Transport Association
MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 (MARPOL: Marine Pollution)
IBC: Intermediate Bulk Container
CAS: Chemical Abstracts Service
VOC: Volatile Organic Compound
ISO: International Organization for Standardization
LD: Lethal dose
LC: Lethal concentration
PBT: Persistent, Bioaccumulative and Toxic
vPvB: Very persistent and very bioaccumulative
SVHC: Substances of very high concern
OECD: Organisation for Economic Co-operation and Development
REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals
UN: United Nations
EC: European Community

Supplemental information

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