



skinmade

last checked 16.03.2020

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1. Identification of the substance or mixture and of the company

1.1 Product identifier

Trading name : skinmade hand disinfectant Zanitize

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

Use of the substance/mixture : Alcoholic solution to be rubbed into the hands for hygienic hand disinfection

1.3 Details of the supplier providing the safety data sheet

Manufacturer/Supplier : Skinmade GmbH
Nobelstraße 15
70569 Stuttgart
+49 (0)711-50092128
together@skinmade.de

Contact person : Dr. Lars Rüther (Managing Director skinmade)
+49 162 3249749
lars@skinmade.de

1.4 Emergency number

Emergency number : Poison emergency call Freiburg : 0761/19240
Fax : 0761/270 44570
E-Mail : giftinfo@uniklinik-freiburg.de
Website : www.giftberatung.de

2. Potential risks

2.1 Classification of the substance or mixture

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

Flam. Liq. 2; H225 - Flammable

Liquids : Category 2; liquid and steam light

2.2 Labelling elements

For ethanol:

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02



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Signal word (CLP) : Risk
Hazard statements (CLP) :

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Danger warnings: H225 Liquid and vapour highly flammable.
H319 Causes severe eye irritation.

Safety instructions : P210 Keep away from heat, hot surfaces, sparks,
open flames and other sources of ignition.
Do not smoke.

P337+P313 In case of persistent
eye irritation : Seek medical advice/consult medical help.

P305+P351+P338
IN CONTACT WITH THE EYES : Flush gently with water for several minutes.
Remove any contact lenses if possible.
Continue rinsing.

P403+P235 : Store in a well-ventilated place. Keep cool.

For H₂O₂:

The product is not classified according to the CLP regulation.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC not
applicable - Information concerning particular hazards for humans and environment:

The product is not subject to classification according to the calculation method of the
„General EC Classification guideline for preparations“ (1999/45/EC) in the latest version.

2.3 Other hazards

No special dangers known

3. Composition/information on ingredients

3.2 Mixtures

Chemical characterization : Aqueous solution



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Dangerous ingredients

Chemical name	Index number CAS No EC No Registration number	Classification (67/548/EWG)	Classification (REGULATION (EG) No 1272/2008)	Concentration [% (m/m)]
Ethanol	603-002-00-5 64-17-5 200-578-6 01- 2119457610- 43-XXXX	F; R11	H225; P210	80 %
H ₂ O ₂	008-003-00-9 7722-84-1 231-765-0 01- 2119485845- 22-xxxx	C, Xn, O; R5, 8, 20/22, 35	H271; H302; H332; H314; H318; H335; H412	0,125 %
Glycerol	- 56-81-5 200-289-5 -	-	-	0,725 %
2-Butanon	606-002-00-3 78-93-3 201-159-0 -	-	H225; H319; H336	< 1%

The full text of the R-phrases mentioned here can be found in section 16, and the full text of the hazard statements listed in this section can be found in section 16.

4. First aid measures

4.1 Description of first aid measures

After eye contact : Rinse eyes with water as a precaution.



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After swallowing : DO NOT induce vomiting. Drink water as a precaution. Consult a doctor if necessary.

4.2 Main acute or delayed symptoms and effects

Symptoms : Gastrointestinal problems

4.3 Indications of immediate medical assistance or special treatment

Treatment : No information available.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media : Extinguishing Powder
Foam
Water spray jet
Carbon dioxide (CO₂)

Unsuitable extinguishing media : Full water jet

5.2 Special hazards arising from the substance or mixture

Special hazards in the fire fighting : Avoid contact with flammable materials.
Danger of decomposition in case of heat- /
Heat exposure.

Hazardous combustion products : Vapours may form explosive mixtures with air.

5.3 Instructions for fire fighting

Cool endangered containers with water in case of fire

Special protective equipment
for fire-fighting : In case of fire, wear breathing apparatus which
is independent of ambient air.

6. Measures in case of accidental release

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Remove
all ignition sources. Do not smoke during
work. See protective measures under points 7
and 8. Ensure adequate ventilation.

6.2 Environmental protection measures

Environmental protection measures : Do not discharge into drains or watercourses.
Do not allow to reach the subsoil/ground.



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6.3 Methods and materials for containment and cleaning up

Cleaning method : With liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.

6.4 Reference to other sections

See chapter 13 for information on disposal.
For information on personal protective equipment, see Chapter 8.
For information on safe handling, see Chapter 7.

7. Handling and storage

7.1 Safety measures for safe handling

Notes on safe handling : Keep/store only in the original container.
Observe safety instructions and instructions for use on the container. Open and handle container with care. Keep away from ignition sources - No smoking. Ensure adequate ventilation. Do not inhale vapour/aerosol.

Notes on fire and Explosion protection : Usual measures of preventive fire protection.
Keep away from ignition sources - Do not smoke.

7.2 Conditions for safe storage taking incompatibilities into account

Requirements for storage rooms and vessels : Keep/store only in the original container. Keep container tightly closed. Store container in a cool, well-ventilated place. Do not store at temperatures below 5 °C.

Further information on storage conditions : Protect from sunlight. Recommended storage temperature: 15 - 25°C

Combined storage instructions : Not together with fire-promoting and spontaneously flammable substances and highly flammable solids. Store separately from foodstuffs.

Storage class : 3

Storage class (TRGS 510) : 3

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7.3 Specific end uses

None

8. Limitations on exposure controls/personal protection

Ingredients	CAS No	Value	Parameters to be monitored	Basis
Ethanol	64-17-5	Limit: country of origin	750 ppm / 960 mg/m ³	TRGS900 (D)

Limit value : 750 ppm / 960 mg/m³

Peak limitation : 2 (II)

Remark : Y

Version : 04.11.2016

Information on the occupational exposure limit value according to the RCP method according to TRGS 900 (D)

Value limit type (country of origin) Calculated RCP occupational exposure limit value (D)

Limit value : Not relevant

DNEL/DMEL and PNEC values

No information on the preparation is available.

DNEL/DMEL

Limit type : DNEL Consumer (local) (ETHANOL ; CAS No : 64-17-5)

Exposure route : Inhalation

Frequency of exposure : Short term (acute)

Limit value : 950 mg/m³

Limit type : DNEL Consumer (systemic) (ETHANOL ; CAS No : 64-17-5)

Exposure route : Oral

Exposure frequency : long-term (repeated)

Limit value : 87 mg/kg

Safety factor : 24 h

Limit type : DNEL Consumer (systemic) (ETHANOL ; CAS No : 64-17-5)

Exposure route : Dermal

Exposure frequency : Long-term (repeated)

Limit value : 206 mg/kg

Safety factor : 24 h

Limit type : DNEL Consumer (systemic) (ETHANOL ; CAS No : 64-17-5)

Route of exposure : Inhalation

Exposure frequency : Long-term (repeated)

Limit value : 114 mg/m³

Limit type : DNEL worker (local) (ETHANOL ; CAS No : 64-17-5)

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Exposure route : Inhalation

Frequency of exposure : Short term (acute)

Limit value : 1900 mg/m³

Limit type : DNEL worker (systemic) (ETHANOL ; CAS No : 64-17-5)

Route of exposure : Dermal

Exposure frequency : Long-term (repeated)

Limit value : 343 mg/kg

Safety factor : 24 h

Limit type : DNEL worker (systemic) (ETHANOL ; CAS No : 64-17-5)

Exposure route : Inhalation

Exposure frequency : Long-term (repeated)

Limit value : 950 mg/m³

Limit type : DNEL employees (systemic) (2-BUTANON; CAS No : 78-93-3)

Route of exposure : Inhalation

Frequency of exposure : Long-term (repeated)

Limit value : 600 mg/m³

Limit type : DNEL worker (systemic) (2-BUTANON; CAS No : 78-93-3)

Route of exposure : Dermal

Frequency of exposure : Long-term (repeated)

Limit value : 1.161 mg/kg KG/Day

PNEC

Limit type : PNEC Water, fresh water (ETHANOL ; CAS No : 64-17-5)

Limit : 0.96 mg/l

Limit type : PNEC Water, sea water (ETHANOL ; CAS No : 64-17-5)

Limit : 0.79 mg/l

Limit type : PNEC (industry) (ETHANOL ; CAS No : 64-17-5)

Exposure route : soil

Limit value : 0.63 mg/kg

Limit type : PNEC sediment, fresh water (ETHANOL ; CAS No : 64-17-5)

Limit : 3.6 mg/kg

Limit type : PNEC Sediment, seawater (ETHANOL ; CAS No : 64-17-5)

Limit : 2.9 mg/kg

Limit type : PNEC secondary poisoning (ETHANOL ; CAS No : 64-17-5)

Limit : 729 mg/kg

Limit type : PNEC Waste water treatment plant (STP) (ETHANOL ; CAS No : 64-17-5)

Limit : 580 mg/l

Limit type : PNEC Water, fresh water (2-BUTANON; CAS No : 78-93-3)

Limit : 55,8 mg/l

Limit type : PNEC Water, sea water (2-BUTANON; CAS No : 78-93-3)



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Limit : 55,8 mg/l
Limit type : PNEC (industry) (2-BUTANON; CAS No: 78-93-3)
Exposure route : soil
Limit value : 22,5 mg/kg
Limit type : PNEC sediment, fresh water (2-BUTANON; CAS No : 78-93-3)
Limit : 284,7 mg/kg
Limit type : PNEC Sediment, seawater (2-BUTANON; CAS No : 78-93-3)
Limit : 284,7 mg/kg
Limit type : PNEC secondary poisoning (2-BUTANON; CAS No : 78-93-3)
Limit : 709 mg/l

8.2 Limits and exposure controls

Personal protective equipment

Eye/face protection	: No special measures are required.
Skin protection	
Hand protection	: Hand protection is not required.
Body protection	: Not required.
Respiratory protection	: Normally no personal respiratory protection necessary.
Hygiene measures	: Keep away from food and drink.
Protective measures	: Keep out of reach of children. Avoid contact with eyes.

Limitation and monitoring of environmental exposure

General information : Avoid penetration into the substrate.

Technical measures to prevent exposure

Provide adequate ventilation.

9. Physical and chemical properties

9.1 Information on basic physical and chemical characteristics

Appearance	: Liquid
Colour	: Colorless
Odour	: Alcohol
Odour threshold	: No data available.

Other physical and chemical parameters

PH value	: 7 (water: 10 g/l, 20 °C)
Melting point/freezing point	: -117 °C
Start and boiling range	: 78 °C



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Flash point : 17 °C
Evaporation rate : No data available.
Flammability (solid, gaseous) : Not relevant (liquid).

Explosion limits

Lower explosion limit (LEL) : 3.5 % by volume
Upper explosion limit (LEL) : 15 % by volume
Explosion limits of dust/air mixtures : Not relevant.
Vapour pressure 59 hPa : at 20 °C
Density : 0.81 g /cm³ at 20 °C
Vapour density : No information available.
Bulk density : Not applicable.
Relative density : No Information available.

Solubility(ies)

Solubility in water : Miscible in any ratio
Partition coefficient
N-octanol/water (log KOW) : -0.31 (exp. (TOXNET))

Autoignition temperature : 425 °C - (DIN 51794)
Decomposition temperature : No data available

Viscosity

Dynamic viscosity : 1.2 mPa s at 20 °C
Explosive properties : Not to be classified as explosive.
Oxidizing properties : None

9.2 Other information

None known.

10. Stability and reactivity

10.1 Reactivity

No hazardous reactions known when used as directed.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of dangerous reactions

Normally none to be expected.

10.4 Conditions to avoid

Do not store at temperatures above 30 °C.



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10.5 Incompatible materials

Do not mix with other products.

10.6 Hazardous decomposition products

Decomposition products

11. Toxicological information

11.1 Details regarding toxic effects

Ethanol

Acute effects

Acute oral toxicity

Parameter	: AETmix calculated
Exposure route	: Oral
Effective dose	: Not relevant
Parameter	: LD50 (ETHANOL ; CAS No : 64-17-5)
Exposure route	: Oral
Species	: Rat
Effective dose	: 10470 mg/kg
Method	: OECD 401
Parameter	: LD50 (ETHANOL ; CAS No : 64-17-5)
Exposure route	: Oral
Species	: Rabbit
Effective dose	: 6300 mg/kg

Experience from practice/with people

Causes severe eye irritation.

Acute dermal toxicity

Parameter	: ATEmix calculated
Exposure route	: Dermal
Active dose	: Not relevant
Parameter	: LD50 (ETHANOL ; CAS No : 64-17-5)
Exposure route	: Dermal
Species	: Rabbit
Active dose	: 20 g/kg

Acute inhalation toxicity

Parameter	: ATEmix calculated
Exposure route	: Inhalation (steam)
Active dose	: Not relevant
Parameter	: LC50 (ETHANOL ; CAS No : 64-17-5)



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Exposure route	: Inhalation
Species	: Rat
Active dose	: 125 mg/l
Exposure duration	: 4 h
Method	: OECD 403

Irritation and corrosivity

Non irritating. Method	: BUS-SKIN COMPATIBILITY TEST (in vitro)
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Sensitization

Not sensitizing.

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute oral toxicity

Parameter	: NOAEL(C) (ETHANOL ; CAS No : 64-17-5)
Exposure route	: Oral
Species	: Rat
Effective dose	: 1730 mg/kg
Exposure duration	: 24 h
Method	: OECD 408

Subacute inhalation toxicity

Parameter	: NOAEL(C) (ETHANOL ; CAS No : 64-17-5)
Exposure route	: Inhalation
Species	: Rat
Effective dose	: > 20 mg/l

CMR effects (carcinogenic, mutagenic and toxic for reproduction)

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



Acute oral toxicity

LD50 Rat (IUCLID)	: 12,600 mg/kg
Symptoms	: Vomitting, abdominal pain, diarrhea

Acute Inhalation toxicity

Symptoms	: Possible consequences: slight irritation of mucous membranes
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Acute dermal toxicity

LD50 Rabbit (IUCLID)	: > 18,700 mg/kg
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Skin irritation

Rabbit

Result : No irritation
(IUCLID)

Eye irritation

Rabbit

Result : No eye irritation
OECD test guideline 405

Sensitization

Patch test: human

Result : Negativ
(IUCLID)

Germ cell mutagenicity

Genotoxicity in vitro

Ames test

Result : Negativ
(IUCLID)

Carcinogenicity

: No information

Toxicity for reproduction

: No information

Teratogenicity

: No information

Specific target organ toxicity

- single exposure

: No information

Specific target organ toxicity

- repeated exposure

: No information

Risk of aspiration

: No information

12. Environmental information

12.1 Toxicity

Aquatic toxicity

Parameter

: LC50 (2-BUTANON; CAS No : 78-93-3)

Species

: Fish

Effective dose

: 2.993 mg/l

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Exposure duration	: 96 h
Parameter	: EC50 (2-BUTANON; CAS No : 78-93-3)
Species	: Aquatic invertebrates
Effective dose	: 308 mg/l
Exposure duration	: 48 h
Parameter	: ErC50 (2-BUTANON; CAS No : 78-93-3)
Species	: Alge
Effective dose	: 1.972 mg/l
Exposure duration	: 72 h

Acute (short-term) fish toxicity

Parameter	: LC50 (ETHANOL ; CAS No : 64-17-5)
Species	: Oncorhynchus mykiss (rainbow trout)
Evaluation parameter	: Acute (short-term) fish toxicity
Effective dose	: 11,200 mg/l
Parameter	: LC50 (ETHANOL ; CAS No : 64-17-5)
Species	: Pimephales promelas (Scratch of thick head)
Evaluation parameter	: Acute (short-term) fish toxicity
Effective dose	: > 15,000 mg/l
Exposure duration	: 96 h

Chronic (long-term) fish toxicity

Parameters	: NOEC (ETHANOL ; CAS No : 64-17-5)
Species	: Ceriodaphnia spec
Evaluation parameter	: (short-term) daphnia toxicity
Effective dose	: 9.6 mg/l

Acute (short-term) daphnia toxicity

Parameter	: EC50 (ETHANOL ; CAS No : 64-17-5)
Species	: Daphnia magna (large water flea)
Evaluation parameter	: Acute (short-term) Daphnia toxicity
Effective dose	: 9200 - 14,300 mg/l
Expositionsdauer	: 48 h
Parameter	: EC50 (ETHANOL ; CAS No : 64-17-5)
Species	: Ceriodaphnia spec
Evaluation parameter	: Acute (short-term) daphnia toxicity
Effective dose	: 1806 mg/l

Chronic (long-term) daphnia toxicity

No data available.

Acute (short-term) algal toxicity

Parameter	: EC50 (ETHANOL ; CAS No : 64-17-5)
Species	: Chlorella vulgaris

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Evaluation parameter	: Acute (short-term) algal toxicity
Effective dose	: 275 mg/l
Parameter	: EC50 (ETHANOL ; CAS No : 64-17-5)
Species	: Selenastrum capricornutum
Evaluation parameter	: Acute (short-term) algal toxicity
Effective dose	: 440 mg/l
Parameter	: IC50 (ETHANOL ; CAS No : 64-17-5)
Species	: Scenedesmus subspicatus
Evaluation parameter	: Acute (short-term) algal toxicity
Effective dose	: > 100 mg/l
Parameter	: ErC50 (ETHANOL ; CAS No : 64-17-5)
Species	: Pseudokirchneriella subcapitata
Evaluation parameter	: Acute (short-term) algal toxicity
Effective dose	: > 4800 mg/l
Exposure duration	: 72 h
Method	: OECD 201

Chronic (long-term) algal toxicity

No data available.

Bacterial toxicity

No data available.

Behaviour in sewage treatment plants

Parameter	: EC50 (ETHANOL ; CAS No : 64-17-5)
Inoculum	: Behaviour in sewage systems
Active dose	: 5800 mg/l
Exposure duration	: 4 h

Toxicity to fish

: Static test LC50 Oncorhynchus mykiss
(rainbow trout): 54,000 mg/l; 96 h (ECHA)

Toxicity to daphnia and other aquatic invertebrates

: Static test EC50 Daphnia magna (large water
flea): > 10,000 mg/l; 24 h (ECHA)

12.2 Persistence and degradability

Biodegradability : All active ingredients are biodegradable at the
dilution occurring in waste water.

12.3 Bioaccumulation potential

Partition coefficient: n-octanol/water : Not applicable.



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12.4 Mobility in soil

Mobility : No information available.

12.5 Results of PBT and vPvB assessment

Evaluation : No information available.

12.6 Other adverse effects

Other ecological information : Do not allow to enter surface waters/ground-water.

13. Notes on disposal

13.1 Waste treatment procedures

Product : Dispose of product according to the listed waste code no.

Contaminated packaging : After emptying the packaging, return it to the collection of recyclables.

Waste key for the unused product : AV 070699 (disinfectant)

Waste code for the unused product (group) : Waste from the manufacture, preparation, distribution and use (MFSU) of fats, lubricants, soaps, detergents, disinfectants and cleaning agents

14. Transport details

Land transport ADR/RID and GGVSEB (cross-border/domestic)

UN number : 1170

ADR/RID-GGVSEB Class : 3

Packaging group : II

Kemler number : 33

Hazard label : 3

UN shipping name : ETHANOL, SOLUTION (ETHYL ALCOHOL, SOLUTION)

Tunnel restriction code : (D/E)

Maritime transport

IMDG/GGVSee class : 3

UN number : 1170

Packaging group : II

Hazard label : 3

EMS number : F-E, S-D

Marine pollutant : No

UN shipping name : ETHANOL, SOLUTION (ETHYL ALCOHOL, SOLUTION)



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Air transport ICAO-TI and IATA-DGR:

ICAO/IATA class : 3
UN/ID number : 1170
Packaging group : II
Hazard label : 3
UN shipping name : ETHANOL, SOLUTION (ETHYL ALCOHOL, SOLUTION)

Special precautions for the user : None

Carriage in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable

15. Legislation

15.1 Safety, health and environmental protection regulations / specific legal regulations for the substance or mixture

Legislation on control
the major-accident hazards
with dangerous substances : Directive 96/82/EC does not apply
Water hazard class : Classification according to Annex 4 of the
„VwVwS“ of 27 July 2005

Volatile organic compound
(VOC) content : 2 % Directive 1999/13/EC on the limitation of
emissions of volatile organic compounds

15.2 Chemical Safety Assessment

Dismissed

16. Others

16.1 Full text of the risk phrases listed in Chapters 2 and 3

R22 Harmful if swallowed.
R36 Irritating to eyes.

16.2 Full text of hazard statements in sections 2 and 3.

H302 Harmful if swallowed.
H319 Causes severe eye irritation.

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16.3 Abbreviations and acronyms

ADR = European Agreement concerning the international carriage of dangerous goods by road
AGW = Occupational exposure limit value
ATE = Estimated value of acute toxicity
AVV = Regulation on the European Waste List
CAS = Chemical Abstracts Service
CLP = Regulation on classification, labelling and packaging [Regulation (EC) No 1272/2008].
CMR = Carcinogenic, mutagenic or toxic to reproduction
CO² = Carbon dioxide
DMEL = Derived minimum effect limit
DNEL = Derived No-Effect Limit
EAK = European Waste Catalogue
EC = European Commission
EC50 = Average effective concentration
EN = European Standard
EU = European Union
EUH phrase = CLP specific hazard statement
GHS = Globally Harmonised System of Classification and Labelling
H-phrase = GHS Hazard statement
IATA = International Air Transport Association
ICAO-TI = International Civil Aviation Organization-Technical Instructions
IMDG = Dangerous goods in international maritime traffic
LC50 = Average lethal concentration
LD50 = Median lethal dose
LogPow = Decadic logarithm of the octanol-water distribution coefficient
LQ = Limited quantity
MARPOL 73/78 = International Convention for Prevention of 1973
pollution from ships, as amended by the 1978 Protocol („Marpol“ = marine pollution)
NOEC/NOEL = No observed effect concentration/level
OECD = Organisation for Economic Cooperation and Development
PBT = Persistent, bioaccumulative and toxic
PNEC = Estimated No-Effect Concentration
RCP = Reciprocal calculation procedure
REACH = Regulation concerning the Registration, Evaluation, Authorisation and Restriction of
Chemicals [Regulation (EC) No 1907/2006].
RID = Regulations concerning the international carriage of dangerous goods by rail
STOT-RE = Specific target organ toxicity - Repeated exposure
STOT-SE = Specific target organ toxicity - Single exposure
SVHC = Substances of Very High Concern
TRGS = Technical rules for hazardous substances
UN = United Nations

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VOC = Volatile organic compounds

vPvB = Very persistent and very bioaccumulative

VwVwS = Administrative regulation on substances hazardous to water

WGK = Water hazard class

To the best of our knowledge, the information in this safety data sheet corresponds to our findings at the time of the revision. The information is intended to give you guidelines for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The information is not transferable to other products. As far as products mentioned in this safety data sheet are mixed, blended or processed with other materials, or are subjected to processing, the information in this safety data sheet cannot be transferred to the material produced, unless expressly stated otherwise.

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