



**skinmade**

last checked 16.03.2020

print date 26.03.2020

## 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) :



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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 H<sub>2</sub>O<sub>2</sub>:

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 [%]
Ethanol	603-002-00-5 64-17-5 200-578-6 01- 2119457610- 43-XXXX	F; R11	H225; P210	76 %
H <sub>2</sub> O <sub>2</sub>	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 -	-	-	1.42 %

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.

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



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#### 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 (CO<sup>2</sup>)

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.

#### 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.



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### 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

### 7.3 Specific end uses

None

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## 8. Limitations on exposure controls/personal protection

### 8.1 Parameters to be monitored

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

Limit value : 750 ppm / 960 mg/m<sup>3</sup>

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/m<sup>3</sup>

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/m<sup>3</sup>

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

Exposure route : Inhalation

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Frequency of exposure : Short term (acute)

Limit value : 1900 mg/m<sup>3</sup>

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/m<sup>3</sup>

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

## 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.<br>Avoid contact with eyes. |

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## 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  
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 /cm<sup>3</sup> 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





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## 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.

### 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

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## 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 )  
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)

## 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



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**CMR effects (carcinogenic, mutagenic and toxic for reproduction)**

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



**Acute oral toxicity**

LD50 Rat : 12,600 mg/kg  
(IUCLID)

Symptoms : Vomitting, abdominal pain, diarrhea

**Akute Inhalation toxicity**

Symptoms : Possible consequences:  
slight irritation of mucous membranes

**Acute dermal toxicity**

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

**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



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<b>Teratogenicity</b>	: No information
<b>Specific target organ toxicity - single exposure</b>	: No information
<b>Specific target organ toxicity - repeated exposure</b>	: No information
<b>Risk of aspiration</b>	: No information

## 12. Environmental information

### 12.1 Toxicity

#### **Aquatic toxicity**

No data are available for the mixture.

#### **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

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## Chronic (long-term) daphnia toxicity

No data available.

## Acute (short-term) algal toxicity

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



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## 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.

## 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-GGVS/E 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

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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)

### **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

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## 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.

### 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  
CO<sup>2</sup> = 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



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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

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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