

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : EXTERIOR MODIFICA TOPCOAT  
Revision date : 05.03.2018  
Print date : -

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

### 1.1 Product identifier

EXTERIOR MODIFICA ACRYLLIC TOPCOAT (17-0735)

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

Paint / paint-related material for industrial / professional use.

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

**Supplier (manufacturer/importer/only representative/downstream user/distributor)**

Anker Stuy Verven B.V.

**Street :** Hellingwal 1

**Postal code/city :** NL - 8407 EM Terwispel

**Telephone :** +31 513 - 46 50 00

**Telefax :** +31 513 - 46 50 30

**Information contact :** info@ankerstuy.nl

### 1.4 Emergency telephone number

Bundesinstitut für Risikobewertung: +49 30-18412-3460 (Office hours 08:00 - 16:30 GMT +1). Outside office hours: call a Poison Center or doctor/physician.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

None

### 2.2 Label elements

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

**Special rules for supplemental label elements for certain mixtures**

EUH208 Contains OCHTHILINONE (ISO) ; A MIXTURE OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1). May produce an allergic reaction.  
EUH210 Safety data sheet available on request.

### 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

TITANIUM DIOXIDE ; REACH registration No. : 01-2119489379-17 ; EC No. : 236-675-5; CAS No. : 13463-67-7

Weight fraction :  $\geq 2,5 - < 10 \%$

Classification 1272/2008 [CLP] : None

3-BUTOXYPROPAN-2-OL ; REACH registration No. : 01-2119475527-28 ; EC No. : 225-878-4; CAS No. : 5131-66-8

Weight fraction :  $\geq 2,5 - < 10 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

#### Additional information

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

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## 4.1 Description of first aid measures

No special measures are necessary.

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

No information available.

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

None

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

None

### 5.3 Advice for firefighters

None

## SECTION 6: Accidental release measures

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

None

### 6.2 Environmental precautions

None

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

None

### 6.4 Reference to other sections

None

## SECTION 7: Handling and storage



### 7.1 Precautions for safe handling

None

### 7.2 Conditions for safe storage, including any incompatibilities

#### Hints on joint storage

Storage class : 10

Storage class (TRGS 510) : 10

### 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection



PBM-code: B

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### 8.1 Control parameters

#### Occupational exposure limit values

OCTHILINONE (ISO) ; CAS No. : 26530-20-1

Limit value type (country of origin) : TRGS 900 ( D )  
Parameter : E: inhalable fraction  
Limit value : 0,05 mg/m<sup>3</sup>  
Peak limitation : 2(I)  
Remark : H,Y  
Version : 04-11-2017

#### DNEL/DMEL and PNEC values

##### DNEL/DMEL

Limit value type : DNEL Consumer (systemic) ( TITANIUM DIOXIDE ; CAS No. : 13463-67-7 )  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 700 mg/kg bw/day  
Limit value type : DNEL worker (local) ( TITANIUM DIOXIDE ; CAS No. : 13463-67-7 )  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 10 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic) ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 33,8 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic) ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 16 mg/kg  
Limit value type : DNEL Consumer (systemic) ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 8,75 mg/kg  
Limit value type : DNEL worker (systemic) ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 270,5 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 44 mg/kg

##### PNEC

Limit value type : PNEC aquatic, freshwater ( TITANIUM DIOXIDE ; CAS No. : 13463-67-7 )  
Limit value : 184 µg/l  
Limit value type : PNEC aquatic, intermittent release ( TITANIUM DIOXIDE ; CAS No. : 13463-67-7 )  
Limit value : 193 µg/l  
Limit value type : PNEC aquatic, marine water ( TITANIUM DIOXIDE ; CAS No. : 13463-67-7 )  
Limit value : 18,4 µg/l  
Limit value type : PNEC sediment, freshwater ( TITANIUM DIOXIDE ; CAS No. : 13463-67-7 )  
Limit value : 1000 mg/kg sediment  
Limit value type : PNEC sediment, marine water ( TITANIUM DIOXIDE ; CAS No. : 13463-67-7 )  
Limit value : 100 mg/kg sediment  
Limit value type : PNEC soil, freshwater ( TITANIUM DIOXIDE ; CAS No. : 13463-67-7 )  
Limit value : 100 mg/kg soil  
Limit value type : PNEC sewage treatment plant (STP) ( TITANIUM DIOXIDE ; CAS No. : 13463-67-7 )

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Limit value :	100 mg/l
Limit value type :	PNEC aquatic, freshwater ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )
Limit value :	525 µg/l
Limit value type :	PNEC aquatic, marine water ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )
Limit value :	52,5 µg/l
Limit value type :	PNEC sediment, freshwater ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )
Limit value :	2,36 mg/kg
Limit value type :	PNEC sediment, marine water ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )
Limit value :	236 µg/kg
Limit value type :	PNEC soil, freshwater ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )
Limit value :	160 µg/kg
Limit value type :	PNEC sewage treatment plant (STP) ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )
Limit value :	10 mg/l

## 8.2 Exposure controls

### Appropriate engineering controls

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

### Personal protection equipment

#### Skin protection

##### Hand protection

Wear suitable gloves tested to EN374. Breakthrough time (maximum wearing time)

**Suitable gloves type :** Disposable gloves.

**Suitable material :** NR (natural rubber, natural latex)

**Required properties :** liquid-tight.

**Breakthrough time (maximum wearing time) :** > 60 min

**Thickness of the glove material :** > 0,5 mm

**Recommended glove articles :** DIN EN 374

##### Body protection

**Suitable protective clothing :** Overall

**Recommended material :** Natural fibres (e.g. cotton)

#### Respiratory protection

Full-face mask or mouthpiece with particulate filter: maximum use concentration for substances with exposure limits:

P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 15 times the exposure limit. P3 filter: up to a max. of

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** liquid

#### Safety relevant basis data

<b>Physical state :</b>			liquid
<b>Freezing point :</b>	( 1013 hPa )		No data available
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )	>=	35 °C
<b>Decomposition temperature :</b>	( 1013 hPa )		No data available
<b>Flash point :</b>			63 °C
<b>Ignition temperature :</b>			No data available
<b>Lower explosion limit :</b>			No data available
<b>Upper explosion limit :</b>			No data available
<b>Vapour pressure :</b>	( 50 °C )		No data available
<b>Relative density :</b>	( 20 °C )		1,08 - 1,13 (Water = 1)
<b>Water solubility :</b>	( 20 °C )		No data available

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<b>Fat solubility :</b>	( 20 °C )	No data available.		
<b>pH :</b>		No data available		
<b>log P O/W :</b>		No data available		
<b>Cinematic viscosity :</b>	( 40 °C )	1715 - 1900	mm <sup>2</sup> /s	
<b>Odour threshold :</b>		No data available		
<b>Relative vapour density :</b>	( 20 °C )	No data available		
<b>Evaporation rate :</b>		No data available		
<b>Colour :</b>		white and derivative		
<b>Odour :</b>		white colours		
<b>Solid content :</b>		approx.	36	mass-%
<b>Density :</b>	( 20 °C )	1,08 - 1,13	g/cm <sup>3</sup>	
<b>Viscosity :</b>	( 20 °C )	1200 - 1500	mPa.s	NEN-ISO 2884
<b>Oxidising liquids :</b>		No data available.		
<b>Explosive properties :</b>		No data available.		

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

No information available.

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

No information available.

### 10.6 Hazardous decomposition products

No information available.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

##### Acute oral toxicity

Parameter :	LD50 ( TITANIUM DIOXIDE ; CAS No. : 13463-67-7 )
Exposure route :	Oral
Species :	Rat
Effective dose :	5000 mg/kg bw
Parameter :	LD50 ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )
Exposure route :	Oral
Species :	Rat
Effective dose :	3300 mg/kg

##### Acute dermal toxicity

Parameter :	LD50 ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )
Exposure route :	Dermal
Species :	Rat
Effective dose :	2000 mg/kg

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## Acute inhalation toxicity

Parameter : LC50 ( TITANIUM DIOXIDE ; CAS No. : 13463-67-7 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 3,43 - 6,82 mg/L air  
Exposure time : 4 h  
Parameter : LC50 ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )  
Exposure route : Inhalative (dust, mist)  
Species : Rat  
Effective dose : 651 ppm  
Exposure time : 4 h

## Repeated dose toxicity (subacute, subchronic, chronic)

### Subacute oral toxicity

Parameter : NOAEL(C) ( TITANIUM DIOXIDE ; CAS No. : 13463-67-7 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 962 - 1000 mg/kg bw/day  
Parameter : NOEL(C) ( TITANIUM DIOXIDE ; CAS No. : 13463-67-7 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 24000 mg/kg bw/day  
Parameter : LOAEL(C) ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 1000 mg/kg  
Parameter : NOAEL(C) ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 350 mg/kg

### Subacute dermal toxicity

Parameter : NOAEL(C) ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : 880 mg/kg

### Subacute inhalation toxicity

Parameter : NOEC ( TITANIUM DIOXIDE ; CAS No. : 13463-67-7 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 10 - 50 mg/m<sup>3</sup> air  
Parameter : LOAEL(C) ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 700 ppm  
Parameter : NOAEL(C) ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 600 - 700 ppm

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

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Parameter : LC50 ( TITANIUM DIOXIDE ; CAS No. : 13463-67-7 )  
Effective dose : 1 - 1,1 mg/l  
Exposure time : 14 days  
Parameter : LC50 ( TITANIUM DIOXIDE ; CAS No. : 13463-67-7 )  
Effective dose : 155 - 294 mg/l  
Exposure time : 4 days  
Parameter : NOEC ( TITANIUM DIOXIDE ; CAS No. : 13463-67-7 )  
Effective dose : 870 - 1100 µg/l  
Exposure time : 14 days  
Parameter : EC50 ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )  
Effective dose : 1 g/l  
Exposure time : 48 h  
Parameter : NOEC ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )  
Effective dose : 560 mg/l  
Exposure time : 48 h

### Acute (short-term) daphnia toxicity

Parameter : EC50 ( TITANIUM DIOXIDE ; CAS No. : 13463-67-7 )  
Effective dose : 19,3 - 33,6 mg/l  
Exposure time : 48 h  
Parameter : LC50 ( TITANIUM DIOXIDE ; CAS No. : 13463-67-7 )  
Effective dose : 500 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )  
Effective dose : 1 g/l  
Exposure time : 4 days  
Parameter : NOEC ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )  
Effective dose : 560 mg/l  
Exposure time : 4 days

### Chronic (long-term) daphnia toxicity

Parameter : NOEC ( TITANIUM DIOXIDE ; CAS No. : 13463-67-7 )  
Effective dose : 1,72 - 2,92 mg/l  
Exposure time : 21 days

### Acute (short-term) algae toxicity

Parameter : EC50 ( TITANIUM DIOXIDE ; CAS No. : 13463-67-7 )  
Effective dose : 100 mg/l  
Exposure time : 72 h  
Parameter : NOEC ( TITANIUM DIOXIDE ; CAS No. : 13463-67-7 )  
Effective dose : 1 mg/l  
Exposure time : 32 days  
Parameter : NOEC ( TITANIUM DIOXIDE ; CAS No. : 13463-67-7 )  
Effective dose : 100 mg/l  
Exposure time : 72 h

### Bacteria toxicity

Parameter : EC50 ( 3-BUTOXYPROPAN-2-OL ; CAS No. : 5131-66-8 )  
Effective dose : 1 g/l  
Exposure time : 3 h

## 12.2 Persistence and degradability

No information available.

## 12.3 Bioaccumulative potential

No information available.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

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No information available.

### 12.6 Other adverse effects

No information available.

### 12.7 Additional ecotoxicological information

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive and is NOT classified as dangerous for the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

No information available.

## SECTION 14: Transport information

### 14.1 UN number

No dangerous good in sense of these transport regulations.

### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

### 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

### 14.4 Packing group

No dangerous good in sense of these transport regulations.

### 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

### 14.6 Special precautions for user

None

## SECTION 15: Regulatory information

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

#### EU legislation

EU limit value for this product (cat. A/d): 130 g/l VOC.

#### Other regulations (EU)

##### Information according to 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

VOC-value : 90 g/l

##### Labelling for contents according to regulation (EC) No. 648/2004

A mixture of : 5-chloro-2-methyl-2-H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) < 5 %

#### National regulations

(NETHERLANDS) VOC content according to Dutch occupational safety and health regulations: Group A: < 150 grams of VOC per liter.

#### Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 5 %

#### Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to VwVwS

### 15.2 Chemical safety assessment

No information available.



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### SECTION 16: Other information

#### 16.1 Indication of changes

None

#### 16.2 Abbreviations and acronyms

a.i. = Active ingredient  
ACGIH = American Conference of Governmental Industrial Hygienists (US)  
ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road  
AFFF = Aqueous Film Forming Foam  
AISE = International Association for Soaps, Detergents and Maintenance Products (joint project of AISE and CEFIC)  
AOAC = AOAC International (formerly Association of Official Analytical Chemists)  
aq. = Aqueous  
ASTM = American Society of Testing and Materials (US)  
atm = Atmosphere(s)  
B.V. = Beperkt Vennootschap (Limited)  
BCF = Bioconcentration Factor  
bp = Boiling point at stated pressure  
bw = Body weight  
ca = (Circa) about  
CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society)  
CEFIC = European Chemical Industry Council (established 1972)  
CIPAC = Collaborative International Pesticides Analytical Council  
CLP = REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
Conc = Concentration  
cP = CentiPoise  
cSt = Centistokes  
d = Day(s)  
DIN = Deutsches Institut für Normung e.V.  
DNEL = Derived No-Effect Level  
DT50 = Time for 50% loss; half-life  
EbC50 = Median effective concentration (biomass, e.g. of algae)  
EC = European Community; European Commission  
EC50 = Median effective concentration  
EINECS = European Inventory of Existing Commercial Chemical Substances (EU, outdated, now replaced by EC Number)  
ELINCS = European List of Notified (New) Chemicals (see Tab 7, Background - Guide)  
ErC50 = Median effective concentration (growth rate, e.g. of algae)  
EU = European Union  
EWC = European Waste Catalogue  
FAO = Food and Agriculture Organization (United Nations)  
GIFAP = Groupement International des Associations Nationales de Fabricants de Produits Agrochimiques (now CropLife International)  
h = Hour(s)  
hPa = HectoPascal (unit of pressure)  
IARC = International Agency for Research on Cancer  
IATA = International Air Transport Association  
IC50 = Concentration that produces 50% inhibition  
IMDG Code = International Maritime Dangerous Goods Code  
IMO = International Maritime Organization  
ISO = International Organization for Standardization  
IUCLID = International Uniform Chemical Information Database  
IUPAC = International Union of Pure and Applied Chemistry  
kg = Kilogram  
Kow = Distribution coefficient between n-octanol and water  
kPa = KiloPascal (unit of pressure)  
LC50 = Concentration required to kill 50% of test organisms  
LD50 = Dose required to kill 50% of test organisms

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LEL = Lower Explosive Limit/Lower Explosion Limit  
LOAEL = Lowest observed adverse effect level  
mg = Milligram  
min = Minute(s)  
ml = Milliliter  
mmHg = Pressure equivalent to 1 mm of mercury (133.3 Pa)  
mp = Melting point  
MRL = Maximum Residue Limit  
MSDS = Material Safety Data Sheet  
n.o.s. = Not Otherwise Specified  
NIOSH = National Institute for Occupational Safety and Health (US)  
NOAEL = No Observed Adverse Effect Level  
NOEC = No observed effect concentration  
NOEL = No Observable Effect Level  
NOx = Oxides of Nitrogen  
OECD = Organization for Economic Cooperation and Development  
OEL = Occupational Exposure Limits  
Pa = Pascal (unit of pressure)  
PBT = Persistent, Bioaccumulative or Toxic  
pH = -log<sub>10</sub> hydrogen ion concentration  
pKa = -log<sub>10</sub> acid dissociation constant  
PNEC = Previsible Non Effect Concentration  
POPs = Persistent Organic Pollutants  
ppb = Parts per billion  
PPE = Personal Protection Equipment  
ppm = Parts per million  
ppt = Parts per trillion  
PVC = Polyvinyl Chloride  
QSAR = Quantitative Structure-Activity Relationship  
REACH = Registration, Evaluation and Authorization of CHemicals (EU, see NCP)  
SI = International System of Units  
STEL = Short-Term Exposure Limit  
tech. = Technical grade  
TSCA = Toxic Substances Control Act (US)  
TWA = Time-Weighted Average  
vPvB = Very Persistent and Very Bioaccumulative  
WHO = World Health Organization = OMS  
y = Year(s)

### 16.3 Key literature references and sources for data

None

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

No information available.

### 16.5 Relevant H- and EUH-phrases (Number and full text)

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

### 16.6 Training advice

None

### 16.7 Additional information

None

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data

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sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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