

Surface Cleaner

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

1.1 - Product identifier

Trade name/designation Surface Cleaner
Chemical name
Product-type Mixture
Product code ECS 262

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

Relevant identified uses - Washing and cleaning products
- For professional use only

1.3 - Details of the supplier of the safety data sheet

ECS Cleaning Solutions GmbH
Wolfener Str. 32-34
D-12681 Berlin Germany
Telephone : +49 (0)30 / 36 46 40 36
gunnar.kleinmann@ecsag.com

1.4 - Emergency telephone number

Germany: Intoxications Information Center; +49 761 19240
Switzerland: Swiss Toxicological Information Centre; +41 44 251 51 51
Austria: Intoxication information center; +43 1 406 43 43

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

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

Not Classified	Not classified
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2.2 - Label elements

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

Signal word : None
Pictograms : None
Hazard statements : None
Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
EUH-phrases	: None

Regulation (EC) No. 648/2004 (Detergents regulation)

2.3 - Other hazards

PBT-substance. - This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

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vPvB-substance. - This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No	%	Class(es)	Specific concentration limit
ethanol, ethyl alcohol	CAS No. : 64-17-5 Index No. : 603-002-00-5 EC No. : 200-578-6	> 0.1 - < 1	Flam. Liq. 2 - H225	Not applicable
2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve INCI: BUTOXYETHANOL	CAS No. : 111-76-2 Index No. : 603-014-00-0 EC No. : 203-905-0	> 0.1 - < 1	Acute Tox. 3 Inhalation - H331 Acute Tox. 4 Oral - H302 Eye Irrit. 2 - H319 Skin Irrit. 2 - H315	ATE oral 1200 ATE Inhalation Vapor 3
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether INCI: BUTOXYDIGLYCOL	CAS No. : 112-34-5 Index No. : 603-096-00-8 EC No. : 203-961-6	> 0.1 - < 1	Eye Irrit. 2 - H319	Not applicable

SECTION 4: First aid measures

4.1 - Description of first aid measures

Following inhalation - Provide fresh air.
- When in doubt or if symptoms are observed, get medical advice.

Following skin contact - Wash immediately with: Water
- When in doubt or if symptoms are observed, get medical advice.

After eye contact - Rinse immediately carefully and thoroughly with eye-bath or water.
- In case of eye irritation consult an ophthalmologist.

After ingestion - Rinse mouth thoroughly with water.
- Do NOT induce vomiting.
- When in doubt or if symptoms are observed, get medical advice.

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

Symptoms and effects - Following inhalation - No information available.

Symptoms and effects - Following skin contact - No information available.

Symptoms and effects - After eye contact - No information available.

Symptoms and effects - After ingestion - No information available.

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

- Treat symptomatically.
- In case an intoxication is suspected, National Poisons Information Centre should be addressed immediately, number of Emergency telephone see in section 1.4.

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SECTION 5: Firefighting measures

5.1 - Extinguishing media

Suitable extinguishing media

- ABC-powder
- Carbon dioxide (CO₂)
- Foam
- Extinguishing powder

Unsuitable extinguishing media

- Full water jet

5.2 - Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture

- No information available.

Hazardous decomposition products

- No information available.

5.3 - Advice for firefighters

- Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

- Use personal protection equipment.
- Provide adequate ventilation.
- Avoid dust formation.

For emergency responders

- Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2 - Environmental precautions

- Do not allow uncontrolled discharge of product into the environment.

6.3 - Methods and material for containment and cleaning up

Methods and material for containment

- No information available.

Methods and material for cleaning up

- Take up mechanically.
- Wash with plenty of water.

Inappropriate techniques

- No information available.

6.4 - Reference to other sections

- Personal protection equipment: see section 8
- Disposal: see section 13

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

Recommendation

- No special technical protective measures are necessary.

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Advices on general occupational hygiene

- Wash hands before breaks and after work.
- When using do not eat, drink, smoke, sniff.

7.2 - Conditions for safe storage, including any incompatibilities

- No information available.

7.3 - Specific end use(s)

- Washing and cleaning products

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

ethanol, ethyl alcohol (64-17-5)	
TWA EH40 ppm (UK)	1000 ppm
TWA EH40 mg/m ³ (UK)	1920 mg/m ³
2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)	
IOELV TWA mg/m ³ (UE)	98 mg/m ³ Skin
IOELV TWA ppm (UE)	20 ppm Skin
IOELV STEL mg/m ³ (UE)	246 mg/m ³ Skin
IOELV STEL ppm (UE)	50 ppm Skin
TWA EH40 ppm (UK)	25 ppm
TWA EH40 mg/m ³ (UK)	123 mg/m ³
STEL EH40 ppm (UK)	50 ppm
STEL EH40 mg/m ³ (UK)	246 mg/m ³
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5)	
IOELV TWA mg/m ³ (UE)	67.5 mg/m ³
IOELV TWA ppm (UE)	10 ppm
IOELV STEL mg/m ³ (UE)	101.2 mg/m ³
IOELV STEL ppm (UE)	15 ppm

DNEL / PNEC

ethanol, ethyl alcohol (64-17-5)			
Type	Value	User	Effect
DNEL long-term oral (repeated)	87 mg/kg bw/day	Consumers	Systemic
DNEL acute inhalative	1900 mg/m ³	Workers	Local
DNEL acute inhalative	950 mg/m ³	Consumers	Local
DNEL long-term inhalative	950 mg/m ³	Workers	Systemic
DNEL long-term inhalative	114 mg/m ³	Consumers	Systemic
DNEL long-term dermal	343 mg/kg bw/day	Workers	Systemic
DNEL long-term dermal	206 mg/kg bw/day	Consumers	Systemic
PNEC aquatic, freshwater	960 mg/l		
PNEC aquatic, marine water	790 mg/l		
PNEC aquatic, intermittent release	2.75 mg/l		
PNEC sediment, freshwater	3.6 mg/kg		
PNEC sediment, marine water	2.9 mg/kg		
PNEC Secondary Poisoning	380 mg/kg		
PNEC sewage treatment plant (STP)	580 mg/l		
2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)			
Type	Value	User	Effect
DNEL short-term oral (acute)	26.7 mg/kg	Consumers	Systemic

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DNEL long-term oral (repeated)	6.3 mg/kg bw/day	Consumers	Systemic
DNEL acute inhalative	1091 mg/m ³	Workers	Systemic
DNEL acute inhalative	246 mg/m ³	Workers	Local
DNEL acute inhalative	426 mg/m ³	Consumers	Systemic
DNEL acute inhalative	147 mg/m ³	Consumers	Local
DNEL long-term inhalative	98 mg/m ³	Workers	Systemic
DNEL long-term inhalative	59 mg/m ³	Consumers	Systemic
PNEC aquatic, freshwater	8.8 mg/l		
PNEC aquatic, marine water	0.88 mg/l		
PNEC aquatic, intermittent release	26.4 mg/l		
PNEC sediment, freshwater	34.6 mg/kg		
PNEC sediment, marine water	3.46 mg/kg		
PNEC Secondary Poisoning	0.02 mg/kg		
PNEC sewage treatment plant (STP)	463 mg/l		

2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5)

Type	Value	User	Effect
DNEL acute inhalative	101.2 mg/m ³	Workers	Local
DNEL long-term inhalative	67.5 mg/m ³	Workers	Local
DNEL long-term inhalative	6.25 mg/m ³	Consumers	Systemic
PNEC aquatic, freshwater	1.1 mg/l		
PNEC aquatic, marine water	0.11 mg/l		
PNEC sediment, freshwater	4.4 mg/kg		
PNEC sediment, marine water	0.44 mg/kg		
PNEC soil	0.32 mg/kg		
PNEC Secondary Poisoning	56 mg/kg		

8.2 - Exposure controls

Appropriate engineering controls

- No information available.

Individual protection measures, such as personal protective equipment

- Suitable protective clothing: lab coat



- Additional eye protection measures: In case of increased risk, additionally

- Eye glasses
- DIN EN 166
- In case of prolonged or frequently repeated skin contact:
- Protective gloves according to EN374
- Glove material: Nitrile rubber (0.11 mm).

Environmental exposure controls

- No information available.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	Solid	<u>Appearance</u>	Solid
<u>Colour</u>	colourless	<u>Odour</u>	characteristic
<u>Odour threshold</u>	No data available		

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pH	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	> 61 °C
Evaporation rate	No data available
flammability	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Density	No data available
Solubility (Water)	No data available
Solubility (Ethanol)	No data available
Solubility (Acetone)	No data available
Solubility (Organic solvents)	No data available
Log KOC	-0.3
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available

Particle characteristics

Particle size	No data available
Dustiness	No data available
Specific surface area	No data available
Shape	No data available

9.2 - Other information

VOC content	No data available
Minimum ignition energy	No data available
Conductivity	No data available

SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4 - Conditions to avoid

- No information available.

10.5 - Incompatible materials

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- No information available.

10.6 - Hazardous decomposition products

- Does not decompose when used for intended uses.

SECTION 11: Toxicological information

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

Acute toxicity - Not classified

Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

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

Toxicity : Substances

ethanol, ethyl alcohol (64-17-5)	
LD50 oral (rat)	10470 mg/kg
LD50 dermal (rat)	17100 mg/kg
LC50 inhalation vapours (rat)	124.7 mg/l
2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)	
LD50 oral (rat)	1414 mg/kg
LD50 dermal (rat)	> 2000 mg/kg
LC50 inhalation vapours (rat)	691 mg/l
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5)	
LD50 oral (rat)	2410 mg/kg
LD50 dermal (rabbit)	2764 mg/kg

Skin corrosion/irritation - Not classified

Serious eye damage/eye irritation - Not classified

Respiratory or skin sensitisation - Not classified

Germ cell mutagenicity - Not classified

Carcinogenicity - Not classified

Reproductive toxicity - Not classified

STOT-single exposure - Not classified

STOT-repeated exposure - Not classified

Aspiration hazard - Not classified

11.2 - Information on other hazards

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- This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

- The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

Toxicity : Substances

ethanol, ethyl alcohol (64-17-5)	
LC50 96 hr fish	11200 mg/l
ErC50 algae	275 mg/l
ErC50 other aquatic plants	5012 mg/l
NOEC chronic fish	250 mg/l
NOEC chronic algae	11.5 mg/l
NOEC chronic other aquatic plants	9.6 mg/l
2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)	
LC50 96 hr fish	1474 mg/l
NOEC chronic fish	100 mg/l
NOEC chronic crustacea	100 mg/l
NOEC chronic algae	88 mg/l
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5)	
EC50 48 hr crustacea	> 1101 mg/l
LC50 96 hr fish	1300 mg/l
ErC50 algae	> 1101 mg/l
NOEC chronic fish	369 mg/l

12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

12.3 - Bioaccumulative potential

Mixture

Bioconcentration factor (BCF)	No data available
Log KOC	-0.3

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- No indication of bioaccumulation potential.

Substances

ethanol, ethyl alcohol (64-17-5)	
Log KOC	-0.35

12.4 - Mobility in soil

- No information available.

12.5 - Results of PBT and vPvB assessment

- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 - Endocrine disrupting properties

- This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 - Other adverse effects

- No information available.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

Waste treatment methods

- Dispose of waste according to applicable legislation.
- Dispose of empty or partially emptied packaging/container/can after appropriate use of the product to municipal waste.
- Handle contaminated packages in the same way as the substance itself.

Sewage disposal

- No information available.

Special precautions for waste treatment

- No information available.

Community or national or regional provisions

- No information available.

SECTION 14: Transport information

14.1 - UN number or ID number

Not applicable

14.2 - UN proper shipping name

Not applicable

14.3 - Transport hazard class(es)

Not applicable

14.4 - Packing group

Not applicable

14.5 - Environmental hazards

Not applicable

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14.6 - Special precautions for user

Not applicable

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

Substances REACH candidates None

Substances Annex XIV None

Substances Annex XVII 2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (Index No.: 603-096-00-8 - EC No.: 203-961-6 - CAS No.: 112-34-5)

VOC content No data available

- -- COMMISSION REGULATION (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII thereto. The Regulation has been published in the Official Journal of the European Union No. L 168/5 on 21 June, 2006;

- -- COMMISSION REGULATION (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures. The Regulation has been published in the Official Journal of the European Union No. L 156, on 14 June, 2016;

- -- COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 203, 26.6.2020, p. 28–58);

- -- On 16 December 2008 the Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of chemical substances and mixtures was undersigned. The said Regulation amended and repealed the directives 67/548/EEC and 1999/45/EC and Regulation (EC) No. 1907/2006 (the REACH Regulation). The Regulation has been published in the Official Journal of the European Union No. L 353, volume 51 on 31 December, 2008;

- -- REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents (OJ L 104/1, 8.4.2004, p.001-0035);

- -- Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No.793/93, Commission Regulation (EC) No. 1488/94, Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Official Journal of the European Union No. L 396, 30-12-2006, error correction – No. L 136/3, 2007-5-29);

- Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

- Swiss Regulations: Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2).

15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - No information available.

SECTION 16: Other information

SDS versions

Version	Issue date	Author	Description of the amendments
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2	01/04/2024		<p>Removed information in section 2: P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/a doctor.</p> <p>Added information in section 2: 2.2 - Label elements P101 If medical advice is needed, have product container or label at hand. P103 Read carefully and follow all instructions.</p> <p>2.3 - Other hazards - This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. - This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.</p> <p>Added information in section 4: 4.1 - Description of first aid measures Following inhalation When in doubt or if symptoms are observed, get medical advice. After ingestion When in doubt or if symptoms are observed, get medical advice.</p> <p>4.3 - Indication of any immediate medical attention and special treatment needed Treat symptomatically. In case an intoxication is suspected, National Poisons Information Centre should be addressed immediately, number of Emergency telephone see in section 1.4.</p> <p>Added information in section 6: 6.1 - Personal precautions, protective equipment and emergency procedures For emergency responders - Wear breathing apparatus if exposed to vapours/dusts/aerosols.</p> <p>6.2 - Environmental precautions - Do not allow uncontrolled discharge of product into the environment.</p> <p>Added information in section 7: 7.1 - Precautions for safe handling Advices on general occupational hygiene - Wash hands before breaks and after work. - When using do not eat, drink, smoke, sniff.</p> <p>7.3 - Specific end use(s) Washing and cleaning products</p> <p>Added information in section 8: 8.2 - Exposure controls Individual protection measures, such as personal protective equipment - Additional eye protection measures: In case of increased risk, additionally - Eye glasses - DIN EN 166 - In case of prolonged or frequently repeated skin contact: - Protective gloves according to EN374 - Suitable material: NBR (Nitrile rubber)</p> <p>Added information in section 11: 11.2 - Information on other hazards This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as</p>
Version	Issue date	Author	Description of the amendments

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			no components meets the criteria. Added information in section 12: 12.6 - Endocrine disrupting properties - This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.
1	30/11/2022		

Abbreviations and acronyms

- ACGIH – Association advancing occupational and environmental health.
- ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
- ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road.
- CAS – Chemical Abstracts Service number.
- CEN – European Committee for Standardisation.
- EC50 – Effective concentration to 50% of a test population (half maximal effective concentration).
- IC50 – Inhibitory concentration to 50% of a test population (half maximal inhibitory concentration).
- IMDG – International Maritime Dangerous Goods.
- IMO – International Maritime Organization.
- LC50 – Lethal Concentration to 50 % of a test population.
- LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose).
- MSDS – Material Safety Data Sheet.
- NIOSH – National Institute of Occupational Safety and Health.
- NOEC – No effect concentration.
- PBT – Persistent, Bioaccumulative and Toxic substance.
- PNEC(s) – Predicted No Effect Concentration(s).
- RID – Regulations concerning the International Carriage of Dangerous Goods by Rail.
- STOT – Specific Target Organ Toxicity.
- vPvB – Very Persistent and Very Bioaccumulative.

Data sources:

European Chemicals Agency (ECHA)
European Chemicals Bureau (ECB)
International Laboratories Organization (ILO)

Texts of the regulatory sentences

Acute Tox. 3 Inhalation	Acute toxicity (inhalative) - Category 3
Acute Tox. 4 Dermal	Acute toxicity (dermal) - Category 4
Acute Tox. 4 Inhalation	Acute toxicity (inhalative) - Category 4
Acute Tox. 4 Oral	Acute toxicity (oral) - Category 4
Eye Irrit. 2	Eye irritation - Category 2
Eye Irrit. 2A	Eye irritation - Category 2A
Flam. Liq. 2	Flammable liquid and vapour. - Category 2
H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H312	Harmful in contact with skin



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H315	Causes skin irritation
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
Not Classified	Not classified
Skin Irrit. 2	Irritation, Category 2

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 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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