

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006, as amended

SPINNER-SPECIAL-Coolingliquid

Version 6.0

Print Date 17.12.2025

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

1.1. Product identifier

Trade name : SPINNER-SPECIAL-Coolingliquid
UFI : GND8-Y06Q-R00A-A90Q
UFI code notified in : Austria, Germany

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

Use of the Substance/Mixture : Refrigerant
Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : Brenntag GmbH
Messeallee 11
DE 45131 Essen
Telephone : +49 (0)201 6496-0
Telefax : +49 (0)201 6496-2039
E-mail address : InfoSDB@brenntag.de
Responsible/issuing person : Umwelt / Sicherheit

1.4. Emergency telephone number

Emergency telephone number : +49 (0)201-6496-0 (Available: 24 hours / 7 days)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Acute toxicity (Oral)	Category 4	---	H302

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Specific target organ toxicity - repeated exposure	Category 2	Kidney	H373
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For the full text of the H-Statements mentioned in this Section, see Section 16.

Most important adverse effects

Human Health	:	See section 11 for toxicological information.
Physical and chemical hazards	:	See section 9/10 for physicochemical information.
Potential environmental effects	:	See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols	:	
Signal word	:	Warning
Hazard statements	:	H302 Harmful if swallowed. H373 May cause damage to organs (Kidney) through prolonged or repeated exposure.
Precautionary statements	:	
Prevention	:	P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.
Response	:	P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P314 Get medical advice/ attention if you feel unwell.
Disposal	:	P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

- ethanediol; ethylene glycol

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2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)	
		Hazard class / Hazard category	Hazard statements
ethanediol; ethylene glycol			
Index-No. : 603-027-00-1	>= 30 - < 50	Acute Tox.4 Oral STOT RE2	H302
CAS-No. : 107-21-1			H373
EC-No. : 203-473-3			
EU REACH- : 01-2119456816-28-xxxx			
Reg. No.			
		Acute toxicity estimate Acute oral toxicity: 500 mg/kg Acute dermal toxicity: 3500,01 mg/kg	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	: Move out of dangerous area. Take off all contaminated clothing immediately.
If inhaled	: Move to fresh air. Keep patient warm and at rest. Consult a physician. If unconscious place in recovery position. In case of shortness of breath, give oxygen. If breathing is irregular or stopped, administer artificial respiration.
In case of skin contact	: Wash off immediately with soap and plenty of water. If symptoms occur call a physician.

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In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. If symptoms occur call a physician.
If swallowed	: Rinse the mouth and spit the fluids out. Drink plenty of water. Do NOT induce vomiting. Call a physician immediately.
Protection of First Aid Responders	: First Aid responders should pay attention to self-protection and use the recommended protective clothing. If potential for exposure exists refer to Section 8 for specific personal protective equipment.

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

Symptoms	: Inhalation of vapours is irritating to the respiratory system, may cause throat pain and cough.; Convulsions; , Unconsciousness; , Liver disorders; , Kidney disorders;
Effects	: Harmful if swallowed.

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

Treatment	: Treatment according to the doctor's diagnosis of the patient. Administer approx. 100 ml ethanol 40 % (hard liquor).
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: water spray, Dry powder, Carbon dioxide (CO ₂), Alcohol-resistant foam
Unsuitable extinguishing media	: High volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting	: Vapours may form explosive mixtures with air. Fire may cause evolution of: Carbon monoxide, Carbon dioxide (CO ₂)
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5.3. Advice for firefighters

Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit)
Further advice	: Cool closed containers exposed to fire with water spray. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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Personal precautions : Use personal protective equipment. Keep away unprotected persons. Ensure adequate ventilation. Do not breathe gas/fumes/vapor/spray. Avoid contact with skin and eyes. Keep away from sources of ignition - No smoking.

6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If material reaches soil inform authorities responsible for such cases. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Large spills should be collected mechanically (remove by pumping) for disposal. Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Keep container tightly closed. Ensure adequate ventilation, especially in confined areas. Do not breathe gas/fumes/vapor/spray.

Hygiene measures : Take off all contaminated clothing immediately. Avoid contact with skin and eyes. Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in an area equipped with solvent resistant flooring. Keep containers tightly closed in a cool, well-ventilated place. Keep only in the original container.

Advice on protection against fire and explosion : The product is flammable but not readily ignited. Keep away from heat and sources of ignition. Vapours may form explosive mixtures with air. Possible formation of ignitable mixtures in air if heated above flash point and/or if sprayed (atomised).

Further information on storage conditions : Keep away from direct sunlight. Keep away from heat. Avoid moisture.

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Advice on common storage : Store away from explosive substances. Materials to avoid
Strong oxidizing agents

German storage class : 10 Combustible liquids

7.3. Specific end use(s)

Specific use(s) : No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component:	ethanediol; ethylene glycol	CAS-No. 107-21-1
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Other Occupational Exposure Limit Values

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Time Weighted Average (TWA):
20 ppm, 52 mg/m³
Indicative

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Short Term Exposure Limit (STEL):
40 ppm, 104 mg/m³
Indicative

Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended, Exposure limit(s):, Vapor and aerosol.
10 ppm, 26 mg/m³, (2)
If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).

Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended, Skin designation:., Vapor and aerosol.
Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice : In case of insufficient ventilation, wear suitable respiratory equipment.
Required if vapours or aerosol are released.

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Required, if exposure limit is exceeded (e.g. OEL).
In case of intensive or longer exposure use self-contained breathing apparatus.
In case of brief exposure or low pollution use breathing filter apparatus.
Recommended Filter type:
Combination filter: A-P2

Hand protection

Advice : Wear suitable gloves.
As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use.
The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.
To achieve a sufficient splashguard (min. break through time 10 min - 60 min) the following combination of gloves is recommended: combination of HPPE laminated film (glove thickness: 0.062 mm) and a two-layer glove consisting of nitrile rubber as coating material (glove thickness: 0.4 mm) and nylon as support material.
Protective gloves should be replaced at first signs of wear.

Eye protection

Advice : Tightly fitting safety goggles

Skin and body protection

Protecting Clothes : Solvent resistant protective clothing

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.
If material reaches soil inform authorities responsible for such cases.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form : liquid
Physical state : liquid
Colour : colourless, clear
Odour : characteristic
Odour Threshold : No data available

: not determined
Boiling point/boiling range : > 100 °C

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Flammability (solid, gas)	:	Formation of explosive air/vapour mixtures is possible.
Upper explosion limit / Upper flammability limit	:	53 %(V)
Lower explosion limit / Lower flammability limit	:	3,2 %(V)
Flash point	:	> 100 °C
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Self-Accelerating decomposition temperature (SADT)	:	No data available
pH	:	5 - 8 Concentration: 1 %
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Flow time	:	No data available
Solubility(ies)		
Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Dissolution Rate	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Dispersion Stability	:	No data available
Vapour pressure	:	23 hPa (20 °C)
Relative density	:	No data available
Density	:	1,085 g/cm ³ (20 °C)
Bulk density	:	No data available
Relative vapour density	:	No data available

9.2 Other information

Explosives	:	Product is not explosive. Formation of explosive air/vapour mixtures is possible.
Oxidizing properties	:	No data available

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SECTION 10: Stability and reactivity

10.1. Reactivity

Advice : No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Advice : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air. Incompatible with oxidizing agents.

10.4. Conditions to avoid

Conditions to avoid : Keep away from direct sunlight.Heat, flames and sparks.

10.5. Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6. Hazardous decomposition products

Hazardous decomposition products : Under fire conditions: Carbon dioxide (CO₂), Carbon monoxide

SECTION 11: Toxicological information

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

Data for the product

Acute toxicity

Oral

Acute toxicity estimate : 1002 mg/kg) (Calculation method)

Inhalation

Based on available data, the classification criteria are not met.
Please find this information in the listing of the component/components below in this section.

Dermal

Based on available data, the classification criteria are not met.
Please find this information in the listing of the component/components below in this section.

Irritation

Skin

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

Eyes

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

Sensitisation

Result : No sensitizing effect known.

CMR effects
CMR Properties

Carcinogenicity : Contains no ingredient listed as a carcinogen
It is not considered carcinogenic.

Mutagenicity : Contains no ingredient listed as a mutagen
It is not considered mutagenic.

Reproductive toxicity : Contains no ingredient listed as toxic to reproduction
It is not considered toxic for reproduction.

Specific Target Organ Toxicity
Single exposure

Remarks : The substance or mixture is not classified as specific target organ
toxicant, single exposure.

Repeated exposure

Remarks : Target Organs: Kidney May cause damage to organs through
prolonged or repeated exposure.

Other toxic properties
Repeated dose toxicity

No data available

Aspiration hazard

No aspiration toxicity classification,

Further information

Other relevant toxicity information : Other dangerous properties can not be excluded.

Component: ethanediol; ethylene glycol **CAS-No.** 107-21-1

Acute toxicity
Inhalation

LC50 : > 2,5 mg/l (Rat; 6 h; dust/mist)

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Dermal

LD50 : > 3500 mg/kg (Mouse, male and female)

11.2. Information on other hazards
Data for the product

Endocrine disrupting properties

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information
12.1. Toxicity

Component:	ethanediol; ethylene glycol	CAS-No. 107-21-1
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Acute toxicity

Fish

LC50 : 72.860 mg/l (Pimephales promelas; 96 h) (static test; EPA OPP 72-1)

Toxicity to daphnia and other aquatic invertebrates

EC50 : > 100 mg/l (Daphnia magna; 48 h) (OECD Test Guideline 202)

algae

EC50 : 6500 - 13000 mg/l (Selenastrum capricornutum; 96 h) (End point: Growth rate)

Bacteria

EC20 : > 1995 mg/l (activated sludge; 0,5 h) (ISO 8192)Read-across (Analogy)

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12.2. Persistence and degradability

Component:	ethanediol; ethylene glycol	CAS-No. 107-21-1
Persistence and degradability		

Persistence

Result : (Related to: Water) non-significant hydrolysis

Biodegradability

Result : 90 - 100 % (aerobic; activated sludge; 53 mg/l; Related to: Dissolved organic carbon (DOC); Exposure Time: 10 d)(OECD Test Guideline 301A)Readily biodegradable.

12.3. Bioaccumulative potential

Component:	ethanediol; ethylene glycol	CAS-No. 107-21-1
Bioaccumulation		

Result : log Kow ca. -1,36 (23 °C) ((calculated))
: Bioaccumulation is not expected.

12.4. Mobility in soil

Component:	ethanediol; ethylene glycol	CAS-No. 107-21-1
Mobility		

Water : The product is water soluble.
Air : The substance will not evaporate into the atmosphere from the water surface.
Soil : Adsorption to solid soil phase is not expected.

12.5. Results of PBT and vPvB assessment

Data for the product	
Results of PBT and vPvB assessment	

Result : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Endocrine disrupting properties

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Data for the product

Assessment : The substance/mixture does not contain components considered to
Endocrine Disrupting : have endocrine disrupting properties according to REACH Article
Properties : 57(f) or Commission Delegated regulation (EU) 2017/2100 or
Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

Data for the product

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product : Disposal together with normal waste is not allowed. Do not let
product enter drains. Can be incinerated, when in compliance
with local regulations.

Contaminated packaging : Empty contaminated packagings thoroughly. They can be
recycled after thorough and proper cleaning. Packagings that
cannot be cleaned are to be disposed of in the same manner
as the product.

European Waste : No waste code according to the European Waste Catalogue
Catalogue Number : can be assigned for this product, as the intended use dictates
the assignment. The waste code is established in consultation
with the regional waste disposer.

SECTION 14: Transport information

Not dangerous goods for ADR, RID and IMDG.

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.

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14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Data for the product

EU. REACH, Annex XVII, : Point Nos.: 3
Restrictions on
manufacture, placing on
the market and use of
certain dangerous
substances,
1907/2006/EC, as
amended

Germany. List of : WGK 1: slightly hazardous to water
Substances That Are Not
Water-Endangering,
AwSV of 21 April 2017,
UBA, Banz AT, as
amended

German : Does not fall under the German StörfallIV. -
Störfallverordnung

Other regulations : Take note of Law on the protection of mothers at work, in
education and in studies (Maternity Protection Act - MuSchG).
Take note of the national regulations on the protection of young
people at work.
This product, delivered to the European Economic Area, is
compliant with Regulation (EC) 1907/2006 (REACH) as every
substance/monomer it is composed of is excluded from
regulation or exempted from registration or have been
registered in the supply chain.

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Please note, that REACH requirements still might apply to import, re-import or specific uses.

Component:	ethanediol; ethylene glycol	CAS-No. 107-21-1
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EU. Chemicals Subject to Export Notification: Annex 1, Part 1, Regulation 649/2012/EU on export and import of dangerous chemicals, as amended : ; The substance/mixture does not fall under this legislation.

EU. REACH, Annex XVII, : Point Nos.: , 3; Listed Restrictions on manufacture, placing on the market and use of certain dangerous substances, 1907/2006/EC, as amended

15.2. Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.

Full text of the Notes referred to under section 3.

Abbreviations and Acronyms

AU AIICL	Australia. Industrial Chemicals Act (AIIC) List
BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand

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DNEL	derived no-effect level
DSL	Canada. Environmental Protection Act, Domestic Substances List
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ENCS (JP)	Japan. Kashin-Hou Law List
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IECSC	China. Inventory of Existing Chemical Substances
INSQ	Mexico. National Inventory of Chemical Substances
ISHL (JP)	Japan. Inventory of Industrial Safety & Health
KECI (KR)	Korea. Existing Chemicals Inventory
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NDSL	Canada. Environmental Protection Act. Non-Domestic Substances List
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
NZIOC	New Zealand. Inventory of Chemicals
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
ONT INV	Canada. Ontario Inventory List
PBT	persistent, bioaccumulative and toxic
PHARM (JP)	Japan. Pharmacopoeia Listing
PICCS (PH)	Philippines. Inventory of Chemicals and Chemical Substances
PNEC	predicted no-effect concentration
REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
UK REACH Auth. No.:	UK REACH Authorisation Number
UK REACH AuthAppC. No.	UK REACH Authorisation Application Consultation Number
UK REACH-Reg.No	UK REACH Registration Number
STOT	specific target organ toxicity
SPM	Synthetic Polymer Microparticles
SVHC	substance of very high concern
TCSI	Taiwan. Existing Chemicals Inventory
TH INV	Thailand. Existing Chemicals Inventory from FDA
TSCA	US. Toxic Substances Control Act

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UVCB	substance of unknown or variable composition, complex reaction products or biological materials
VN INVL	Vietnam. National Chemical Inventory
vPvB	very persistent and very bioaccumulative

Further information

Key literature references and sources for data	:	Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.
Methods used for product classification	:	The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.
Hints for trainings	:	The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.
Other information	:	<p>The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.</p> <p>The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.</p>

|| Indicates updated section.