

Safety Data Sheet

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

Trade name : XR Cleaner NDT
Revision : 22.05.2015
Print date : 22.05.2015

Version (Revision) : 2.0.0 (1.0.0)

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

1.1 Product identifier

XR Cleaner NDT

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

Relevant identified uses

For cleaning roller packages and developer tanks of NDT x-ray film processors.

Product Categories [PC]

PC35 - Washing and cleaning products (including solvent based products)

Uses advised against

None, if handled according to order.

Remark

The product is intended for professional use.

1.3 Details of the supplier of the safety data sheet

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

orochemie GmbH + Co. KG

Street : Max-Planck-Straße 27

Postal code/city : 70806 Kornwestheim

Telephone : +49 7154 1308-0

Telefax : +49 7154 1308-40

Information contact : Dürr NDT GmbH & Co KG, Höpfigheimer Straße 22, D-74321 Bietigheim-Bissingen,
Phone No.: +49 (0) 7142 993810, Telefax No.: +49 (0) 7142 99381 299, info@duerr-ndt.de

1.4 Emergency telephone number

INT: +49 6132 84463 (24 h/7 d)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

Classification procedure

The classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP].

Classification according to Directive 67/548/EEC or 1999/45/EC

None

2.2 Label elements

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

Hazard pictograms



Corrosion (GHS05)

Signal word

Danger

Hazard statements

H318 Causes serious eye damage.

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Precautionary statements

P280 Wear protective gloves and eye/face protection.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P353 Rinse skin with water/shower.
P501 Dispose of contents/container to hazardous or special waste collection point.

Labelling (67/548/EEC or 1999/45/EC)

S-phrases

37/39 Wear suitable gloves and eye/face protection.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice .
24/25 Avoid contact with skin and eyes.

Special provisions concerning the labelling of certain mixtures

101 Safety data sheet available for professional user on request.

2.3 Other hazards

None

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Description

XR Cleaner NDT contains anionic surfactants, alkaline cleaning components and complexing agents in aqueous solution.

Hazardous ingredients

SODIUM ETHYLENEDIAMINETETRAACETATE ; REACH registration No. : 01-2119486762-27 ; EC No. : 200-573-9; CAS No. : 64-02-8

Weight fraction : $\geq 1 - < 3 \%$
Classification 67/548/EEC : Xi ; R41 Xn ; R20/22 Xi ; R38
Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315

DODECYLBENZENESULPHONATE, AMINE SALT ; REACH registration No. : - ; EC No. : 270-116-6; CAS No. : 68411-31-4

Weight fraction : $\geq 1 - < 3 \%$
Classification 67/548/EEC : Xi ; R41 Xi ; R38
Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315

SODIUM HYDROXIDE ; REACH registration No. : 01-2119457892-27 ; EC No. : 215-185-5; CAS No. : 1310-73-2

Weight fraction : $\geq 0,3 - < 0,5 \%$
Classification 67/548/EEC : C ; R35
Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1A ; H314 Eye Dam. 1 ; H318

Additional information

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated, saturated clothing immediately. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Following inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact

Wash with plenty of water. When in doubt or if symptoms are observed, get medical advice.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart

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and consult an ophthalmologist.

After ingestion

If swallowed, immediately drink: Water Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂) Extinguishing powder Water spray Water mist The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

None known.

Hazardous combustion products

None known.

5.3 Advice for firefighters

Adapt protective equipment to surrounding fire.

Special protective equipment for firefighters

Adapt protective equipment to surrounding fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. See protective measures under point 7 and 8.

For non-emergency personnel

Use personal protection equipment. See protective measures under point 7 and 8.

For emergency responders

Personal protection equipment

See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

Other information

Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections

None

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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Keep/Store only in original container. Please note safety instructions and directions for use on the drum. Handle and open container with care. Provide adequate ventilation. Do not breathe vapour/aerosol.

Protective measures

Measures to prevent fire

Usual measures for fire prevention. When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container. Keep container tightly closed. Keep in a cool, well-ventilated place. Do not store in temperatures below 5 °C.

Hints on joint storage

Store the foodstuffs separately.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL/DMEL and PNEC values

There are no data available on the preparation itself.

DNEL/DMEL

Limit value type :	DNEL Consumer (local) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	1,5 mg/m ³
Limit value type :	DNEL Consumer (local) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	1,5 mg/m ³
Limit value type :	DNEL Consumer (systemic) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	1,5 mg/m ³
Limit value type :	DNEL Consumer (systemic) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	1,5 mg/m ³
Limit value type :	DNEL Consumer (systemic) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route :	Oral
Exposure frequency :	Long-term (repeated)
Limit value :	25 mg/kg
Safety factor :	24 h
Limit value type :	DNEL worker (local) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	2,5 mg/m ³
Limit value type :	DNEL worker (local) (SODIUM HYDROXIDE ; CAS No. : 1310-73-2)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)

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Limit value : 1 mg/m³
Limit value type : DNEL worker (local) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 2,5 mg/m³
Limit value type : DNEL worker (systemic) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 2,5 mg/m³
Limit value type : DNEL worker (systemic) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 2,5 mg/m³

PNEC

Limit value type : PNEC aquatic, freshwater (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Water (Including sewage plant)
Limit value : 2,8 mg/l
Limit value type : PNEC aquatic, intermittent release (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Limit value : 1,6 mg/l
Limit value type : PNEC aquatic, marine water (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Water (Including sewage plant)
Limit value : 0,28 mg/l
Limit value type : PNEC (Industrial) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Soil
Limit value : 0,95 mg/kg
Limit value type : PNEC sewage treatment plant (STP) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Water (Including sewage plant)
Limit value : 57 mg/l

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Eye glasses with side protection DIN EN 166

Skin protection

Hand protection

Short-term exposure (Level 2: < 30 min): disposable gloves to EN374 category III, e.g. nitrile rubber, material thickness 0.1 mm.

Long-term exposure (Level 6: < 480 min): protective gloves to EN374 category III, e.g. nitrile rubber, material thickness 0.7 mm.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

Body protection

Body protection: not required.

Respiratory protection

Usually no personal respiratory protection necessary.

General health and safety measures

Keep away from food, drink and animal feedingstuffs. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing. Wash hands before breaks and after work. Separate storage of work clothes. When using do not eat, drink, smoke, sniff.

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Occupational exposure controls Technical measures to prevent exposure

Provide adequate ventilation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

Odour : odourless

Safety relevant basis data

Melting point/melting range :	(1013 hPa)			No data available
Initial boiling point and boiling range :	(1013 hPa)	ca.	100	°C
Decomposition temperature :	(1013 hPa)			No data available
Flash point :				not applicable
Ignition temperature :				not applicable
Lower explosion limit :				not applicable
Upper explosion limit :				not applicable
Vapour pressure :	(50 °C)			No data available
Density :	(20 °C)		1,01 - 1,03	g/cm ³
Solvent separation test :	(20 °C)	<	3	%
Water solubility :	(20 °C)		100	Wt %
pH value :			12 - 13	
log P O/W :				No data available
Flow time :	(20 °C)	<	12	s
Odour threshold :				not applicable
Oxidising liquids :				Not applicable.
Explosive properties :				Not applicable.
Corrosive to metals :				Not corrosive to metals.

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

None, if handled according to order.

10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7). Reactions with acids: development of heat.

10.3 Possibility of hazardous reactions

None, if handled according to order.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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There are no data available on the mixture itself.

Acute effects

Acute oral toxicity

Parameter : LD50 (DODECYLBENZENESULPHONATE, AMINE SALT ; CAS No. : 68411-31-4)
Exposure route : Oral
Species : Rat
Effective dose : > 2000 mg/kg
Parameter : LD50 (SODIUM HYDROXIDE ; CAS No. : 1310-73-2)
Exposure route : Oral
Species : Rat
Effective dose : 2000 mg/kg
Parameter : LD50 (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Oral
Species : Rat
Effective dose : 1780 - 2000 mg/kg

Practical experience/human evidence

Avoid contact with skin and eyes.

Acute inhalation toxicity

Parameter : LC50 (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Inhalation
Species : Rat
Effective dose : 1000 - 5000 mg/l
Exposure time : 6 h

Irritant and corrosive effects

Causes serious eye damage.

Sensitisation

No data available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

No information available.

11.5 Additional information

The classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP].

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

There are no data available on the preparation itself.

Acute (short-term) fish toxicity

Parameter : Acute (short-term) fish toxicity (SODIUM HYDROXIDE ; CAS No. : 1310-73-2)
Species : Gambusia affinis (Mosquito fish)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 125 mg/l
Exposure time : 96 h
Parameter : LC50 (SODIUM HYDROXIDE ; CAS No. : 1310-73-2)
Species : Fish
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 35 - 139 mg/l
Exposure time : 96 h
Parameter : LC50 (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Species : Lepomis macrochirus (Bluegill)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 951 mg/l
Exposure time : 96 h

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Parameter : LC50 (DODECYLBENZENESULPHONATE, AMINE SALT ; CAS No. : 68411-31-4)
Species : Leuciscus idus (golden orfe)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 1 - 10 mg/l
Exposure time : 96 h

Parameter : LC50 (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Species : Leuciscus idus (golden orfe)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 2040 mg/l
Exposure time : 96 h

Parameter : LC50 (SODIUM HYDROXIDE ; CAS No. : 1310-73-2)
Species : Fish
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 33 - 189 mg/l
Exposure time : 96 h

Parameter : LC0 (DODECYLBENZENESULPHONATE, AMINE SALT ; CAS No. : 68411-31-4)
Species : Leuciscus idus (golden orfe)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 4 mg/l
Exposure time : 96 h

Chronic (long-term) fish toxicity

Parameter : NOEC (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Species : Brachydanio rerio (zebra-fish)
Evaluation parameter : Chronic (long-term) fish toxicity
Effective dose : >= 25,7 mg/l
Exposure time : 840 h
Method : OECD 210

Acute (short-term) daphnia toxicity

Parameter : Acute (short-term) daphnia toxicity (SODIUM HYDROXIDE ; CAS No. : 1310-73-2)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 40,4 mg/l
Exposure time : 48 h

Parameter : EC50 (SODIUM HYDROXIDE ; CAS No. : 1310-73-2)
Species : Daphnia
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 30 - 1000 mg/l

Parameter : EC50 (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 140 mg/l
Exposure time : 48 h

Parameter : EC50 (DODECYLBENZENESULPHONATE, AMINE SALT ; CAS No. : 68411-31-4)
Species : Daphnia
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 10 - 100 mg/l
Exposure time : 48 h

Chronic (long-term) daphnia toxicity

Parameter : NOEC (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 25 mg/l
Exposure time : 504 h

Acute (short-term) algae toxicity

Parameter : EC50 (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)

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Species :	Algae
Evaluation parameter :	Acute (short-term) algae toxicity
Effective dose :	> 300 mg/l
Exposure time :	72 h
Parameter :	EC50 (DODECYLBENZENESULPHONATE, AMINE SALT ; CAS No. : 68411-31-4)
Species :	Algae
Evaluation parameter :	Acute (short-term) algae toxicity
Effective dose :	10 - 100 mg/l
Exposure time :	72 h

Effects in sewage plants

In case of appropriate conduction into adapted biological purification plants no disturbances have to be expected.

12.2 Persistence and degradability

Biodegradation

The surfactants comply with OECD guidelines and are therefore biodegradable.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

There are no data available on the preparation itself.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

Prevent from flowing into surface water/ground water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

Concentrate/larger quantities: 07 06 01* aqueous cleaning liquid.

Waste treatment options

Appropriate disposal / Product

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number

No dangerous goods in sense of this transport regulation.

14.2 UN proper shipping name

No dangerous goods in sense of this transport regulation.

14.3 Transport hazard class(es)

No dangerous goods in sense of this transport regulation.

14.4 Packing group

No dangerous goods in sense of this transport regulation.

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14.5 Environmental hazards

No dangerous goods in sense of this transport regulation.

14.6 Special precautions for user

None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

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

National regulations

Restrictions of occupation

According to directive 94/33/EC, juveniles are only allowed to handle this product as long as all effects of dangerous substances are prevented.

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Indication of changes

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

16.2 Abbreviations and acronyms

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimates

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CMR = Carcinogen, Mutagen or Reproductive toxicant

CO₂ = Carbon dioxide

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EC = European Commission

EC50 = Half maximal effective concentration

EN = European Standard (Norm)

EU = European Union

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

H statement = GHS Hazard statement

IATA = International Air Transport Association ICAO-TI = International Civil Aviation Organization-Technical Instructions

IMDG = International Maritime Dangerous Goods

LC50 = Median lethal concentration

LD50 = Median lethal dose

LogPow = Logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NOEC/NOEL = No observed effect concentration/level

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RMM = Risk Management Measure

RRN = REACH Registration Number

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STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
SVHC = Substances of Very High Concern
TLV/STEL = Threshold limit value/short-term exposure limit
TLV/TWA = Threshold limit value/time weighted average
UN = United Nations
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

16.3 Key literature references and sources for data

None

16.4 Relevant R-, H- and EUH-phrases (Number and full text)

H290	May be corrosive to metals.
H302+H332	Harmful if swallowed or if inhaled.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
R20/22	Harmful by inhalation and if swallowed.
R35	Causes severe burns.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.

16.5 Training advice

None

16.6 Additional information

Notice the directions for use on the label.
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Dipl. Ing. Elisabeth Gehring Tel. No.: +49 7154 1308-37

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.
