

Safety Data Sheet

according to Ordinance (EC) No. 1907/2006

Printing date: 22.01.16

Revision: 1 / 25.11.2013

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1. Identification of the substance / mixture and of the company / undertaking

Trade name: BRILLIANCE CLEAN

Supplier: Gerd Eisenblätter GmbH

Jeschkenstraße 12d
82538 Geretsried
Phone: + 49 (0) 8171 / 9082 - 010

Emergencies: +49 (0) 8171 / 9082 - 010

2. Composition / Information on ingredients

Chemical characterisation:

Dangerous components:

PROPAN-2-OL

REACH registration No.: 01-2119457558-25-XXXX;

EC No : 200-661-7; CAS No. : 67-63-0

Weight fraction: 5 - < 10 %

Classification 67/548/EEC : F; R11 Xi; R36 R67

Classification 1272/2008 (CLP): Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336

BUTYL CELLOSOLVE

REACH registration No.: 01-2119475108-36-XXXX; EC No: 203-905-0; CAS No.: 111-76-2

Weight fraction: 5 - < 10 %

Classification 67/548/EEC: Xn; R20/21/22 Xi; R36/38

Classification 1272/2008 (CLP): Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319

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

3. Hazards identification

3.1. Classification of the substance or mixture

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

None.

3.2. Label elements

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

Special provisions concerning the labelling of certain mixtures

101 Safety data sheet available for professional user on request.

3.3. Other hazards

None.

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4. First aid measures

4.1. Description of first aid measures

- After inhalation: In case of respiratory tract irritation, consult a physician.
Remove casualty to fresh air and keep warm and at rest.
- After skin contact: After contact with skin, wash immediately with plenty of water and soap.
Rub greasy ointment into the skin.
- After eye contact: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- After swallowing: Rinse mouth immediately and drink plenty of water. Call a physician immediately.
- General information: When in doubt or if symptoms are observed, get medical advice.

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.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing agents:

Water foam, extinguishing powder, carbon dioxide (CO₂), sand, nitrogen, extinguishing blanket.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: carbon monoxide, carbon dioxide (CO₂), sulphur oxides.

5.3. Advice for fire fighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.
Move undamaged containers from immediate hazard area if it can be done safely.

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Special danger of slipping by leaking / spilling product.

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

Clear spills immediately. Wipe up with absorbent material (e.g. cloth, fleece). Wash with plenty of water. Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for disposal information.

7. Handling and storage

7.1. Precautions for safe handling

Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

Keep / Store only in original container. Protect against Frost.

Hints on joint storage

Storage class (TRGS 510): 10

Specific end use(s):

Observe technical data sheet. Observe instructions for use.

8. Exposure controls / personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1. Control parameters

Occupational exposure limit values

PROPAN-2-OL; CAS No.: 67-63-0

Limit value type (country of origin): STEL (D)

Limit value: 400 ppm / 1000 mg/m³

Version:

Limit value type (country of origin): TRGS 900 (D)

Limit value: 200 ppm / 500 mg/m³

Peak limitation: 2(II)

Remark: Y

Version: 01.09.2012

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BUTYL CELLOSOLVE; CAS No.: 111-76-2
Limit value type (country of origin): STEL (D)
Limit value: 40 ppm / 196 mg/m³
Version:
Limit value type (country of origin): TRGS 900 (D)
Limit value: 10 ppm / 49 mg/m³
Peak limitation: 4(II)
Remark: H,Y
Version: 01.09.2012
Limit value type (country of origin): STEL (EC)
Limit value: 50 ppm / 246 mg/m³
Remark: H
Version: 08.06.2000
Limit value type (country of origin): TWA (EC)
Limit value: 20 ppm / 98 mg/m³
Remark: H
Version: 08.06.2000

Biological limit values

PROPAN-2-OL; CAS No.: 67-63-0
Limit value type (country of origin): TRGS 903 (D)
Parameter: Acetone / Whole blood (B) / End of exposure or end of shift
Limit value: 25 mg/l
Version: 31.03.2004
Limit value type (country of origin): TRGS 903 (D)
Parameter: Acetone / Urine (U) / End of exposure or end of shift
Limit value: 25 mg/l
Version: 31.03.2004
BUTYL CELLOSOLVE; CAS No.: 111-76-2
Limit value type (country of origin): TRGS 903 (D)
Parameter: Butoxy acetic acid / Urine (U) / At long term exposure: after several previous shifts
Limit value: 100 mg/l
Version: 31.03.2004

DNEL / DMEL and PNEC values

DNEL / DMEL

Limit value type: DNEL / DMEL (Worker, Local) (BUTYL CELLOSOLVE; CAS No.: 111-76-2)
Exposure route: Inhalation
Exposure frequency: Short-term (acute)
Limit value: 246 mg/m³
Limit value type: DNEL / DMEL (Worker, Systemic) (BUTYL CELLOSOLVE; CAS No. : 111-76-2)
Exposure route: Inhalation
Exposure frequency: Long-term (repeated)
Limit value: 98 mg/m³
Limit value type: DNEL / DMEL (Worker, Systemic) (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route: Inhalation
Exposure frequency: Long-term (repeated)
Limit value: 500 mg/m³
Limit value type: DNEL / DMEL (Worker, Systemic) (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route: Dermal
Exposure frequency: Long-term (repeated)
Limit value: 888 mg/kg

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Limit value type: DNEL / DMEL (Worker, Systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)

Exposure route: Inhalation

Exposure frequency: Short-term (acute)

Limit value: 663 mg/m³

Limit value type: DNEL / DMEL (Worker, Systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)

Exposure route: Dermal

Exposure frequency: Long-term (repeated)

Limit value: 75 mg/kg

Limit value type: DNEL / DMEL (Worker, Systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)

Exposure route: Dermal

Exposure frequency: Short-term (acute)

Limit value: 89 mg/kg

8.2. Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Do not put any product-impregnated cleaning rags into your trouser pockets.

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

Remove contaminated, saturated clothing immediately.

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values

Suitable respiratory protection apparatus: Combination filtering device (EN 14387) Type: A

Remark: Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

Protection of hands:

Wear protective gloves in case of longer lasting skin contact.

Suitable gloves type: EN 374.

Suitable material: NBR (Nitrile rubber).

Breakthrough time (maximum wearing time): 480 min.

Thickness of the glove material: 0.4 mm

Remark: The exact breakthrough time has to be requested from the protective glove manufacturer and limits has to be ensured.

Eye protection:

Wear suitable safety goggles in case of splash.

Suitable eye protection: Safety goggles acc. EN 166.

Additional information:

No tests have been performed. Selection made for preparations according to the best available knowledge and information on ingredients.

In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use.

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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form:	liquid	
Colour:	clear	
Odour:	characteristic	
pH-value	ca. 10.5	
Vapour pressure (50°C):	< 1000 hPa	
Boiling temperature/ Boiling range (1013hPa):	ca. 95°C	
Flash point:	ca. 40°C	
Ignition temperature:	not relevant	
Danger of explosion: lower explosion limit: upper explosion limit:	not relevant not relevant	
Density (20°C):	ca. 1 g/cm ³	
Solubility (20°C):	completely miscible	
Solidifying point (1234,1 % / 1256,1 Vol-%):	ca. -8°C	Brookfield
Maximum VOC content (EC):	13 Wt %	
Maximum VOC content (Switzerland):	13 Wt %	

9.2. Other information

None.

10. Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

No information available.

10.3. Possibility of hazardous reactions

Do not spray on naked flames or any incandescent materials.

10.4. Conditions to avoid

No information available.

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10.5. Incompatible materials

Aluminium, Zinc.

10.6. Hazardous decomposition products

Do not inhale explosion and combustion gases.

11. Toxicological information

11.1. Information on toxicological effects

Acute effects:

Acute oral toxicity

Parameter:	LD50
	(BUTYL CELLOSOLVE; CAS No.: 111-76-2)
Exposure route:	Oral
Species:	Rat
Effective dose:	1746 mg/kg
Method:	OECD 401
Parameter:	LD50
	(PROPAN-2-OL; CAS No.: 67-63-0)
Exposure route:	Oral
Species:	Rat
Effective dose:	> 2000 mg/kg
Method:	OECD 401

Acute dermal toxicity

Parameter:	LD50
	(BUTYL CELLOSOLVE; CAS No.: 111-76-2)
Exposure route:	Dermal
Species:	Rabbit
Effective dose:	841 mg/kg
Method:	OECD 402
Parameter:	LD50
	(PROPAN-2-OL; CAS No.: 67-63-0)
Exposure route:	Dermal
Species:	Rabbit
Effective dose:	> 2000 mg/kg

Acute inhalation toxicity

Parameter:	LC50
	(PROPAN-2-OL; CAS No.: 67-63-0)
Exposure route:	Inhalation
Species:	Rat
Effective dose:	> 10000 ppm
Exposure time:	6 h
Method:	OECD 403
Parameter:	LC50
	(BUTYL CELLOSOLVE; CAS No.: 111-76-2)
Exposure route:	Inhalation
Species:	Rat
Effective dose:	2 - 20 mg/l
Exposure time:	4 h

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11.2. Toxicokinetics, metabolism and distribution

There are no data available on the preparation / mixture itself.

11.3. Other adverse effects

Frequently or prolonged contact with skin may cause dermal irritation.

11.4. Additional information

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

12. Ecological information

12.1. Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter:	LC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species:	Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter:	Acute (short-term) fish toxicity
Effective dose:	1474 mg/l
Exposure time:	96 h
Method:	OECD 203
Parameter:	LC50 (PROPAN-2-OL; CAS No.: 67-63-0)
Species:	Pimephales promelas (fathead minnow)
Evaluation parameter:	Acute (short-term) fish toxicity
Effective dose:	10000 mg/l
Exposure time:	96 h
Method:	OECD 203
Parameter:	LC50 (PROPAN-2-OL; CAS No.: 67-63-0)
Species:	Daphnia magna (Big water flea)
Evaluation parameter:	Acute (short-term) daphnia toxicity
Effective dose:	> 10000 mg/l
Exposure time:	48 h
Method:	OECD 202
Parameter:	LC50 (BUTYL CELLOSOLVE; CAS No.: 111-76-2)
Species:	Daphnia magna (Big water flea)
Evaluation parameter:	Acute (short-term) daphnia toxicity
Effective dose:	1815 mg/l
Exposure time:	24 h
Method:	DIN 38412 / part 11
Parameter:	LC50 (BUTYL CELLOSOLVE; CAS No.: 111-76-2)
Species:	Daphnia magna (Big water flea)
Evaluation parameter:	Chronic (long-term) daphnia toxicity
Effective dose:	297 mg/l
Exposure time:	21 d
Method:	OECD 211

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Chronic (long-term) daphnia toxicity

Parameter: NOEC (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species: Brachydanio rerio (zebra-fish)
Evaluation parameter: Chronic (long-term) fish toxicity
Effective dose: > 100 mg/l
Exposure time: 21 d
Method: OECD 204
Parameter: NOEC (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species: Daphnia magna (Big water flea)
Evaluation parameter: Chronic (long-term) daphnia toxicity
Effective dose: 100 mg/l
Exposure time: 21 d
Method: OECD 211
Parameter: NOEC (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species: Algae
Effective dose: 286 mg/l
Exposure time: 72 h
Method: OECD 201

Acute (short-term) algae toxicity

Parameter: EC50
(BUTYL CELLOSOLVE; CAS No.: 111-76-2)
Species: Algae
Effective dose: 1840 mg/l
Exposure time: 72 h
Method: OECD 201

12.2. Persistence and degradability

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Biodegradation

Analytical method: Biodegradation
(BUTYL CELLOSOLVE; CAS No.: 111-76-2)
Parameter: Biodegradation
Degradation rate: 88 %
Time: 20 d
Analytical method: Biodegradation
(PROPAN-2-OL; CAS No.: 67-63-0)
Parameter: Biodegradation
Type: Aerobic
Degradation rate: > 53 %
Time: 5 d

12.3. Bioaccumulative potential

No information available.

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.

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12.6. Other adverse effects

No information available.

12.7. Further ecological information

After neutralization, reduction in toxic effects is observed.

13. Disposal considerations

The waste codes are recommendations based on the schedule use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances.

13.1. Waste treatment methods

Product / Packaging disposal

Waste codes / waste designations according to EWC / AVV

Waste code product

07 06 01* - aqueous washing liquids and mother liquors

20 01 30 - detergents other than those mentioned in 20 01 29.

Waste code packaging

15 01 02 - plastic packaging.

Waste treatment options

Appropriate disposal / Package

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

13.2. Additional information

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

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.

14.5. Environmental hazards

No dangerous goods in sense of this transport regulation.

14.6. Special precautions for user

None

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15. Regulatory information

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

EU legislation

Other regulations (EU)

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

None

National regulations

AT: Labelling according to Austrian regulations (Chemikaliengesetz / ChemV).

CH: Chemikalienverordnung (ChemV) and Chemikalien-Risikoreduktions-Verordnung (Chem RRV) are complied.

Restrictions of occupation

None

Water hazard class (WGK)

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

Other regulations, restrictions and prohibition regulations

VbF-Class : -

15.2. Chemical safety assessment

No information available.

16. Other information

Relevant R-phrases (number and full text):

- 11 Highly flammable.
- 20 / 21 / 22 Harmful by inhalation, in contact with skin and if swallowed.
- 36 Irritating to eyes.
- 36 / 38 Irritating to eyes and skin.
- 67 Vapours may cause drowsiness and dizziness.

Relevant H- and EUH-phrases (number and full text):

- H225 Highly flammable liquid and vapour.
- H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.

Abbreviations and acronyms

- ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route.
- AOX: adsorbable organohalogenes
- CAS: Chemicals Abstracts Service
- CLP: Classification, Labelling and Packaging
- EAK / AVV: europäischer Abfallschlüsselkatalog (european waste catalogue)
- EINECS: European Inventory of Existing Commercial Chemical Substances
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organization
- IMDG: International Maritime Code for Dangerous Goods
- RCP: reciprocal calculation procedure
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- TRGS: Technische Regel für den Umgang mit Gefahrstoffen
- VbF: Verordnung über brennbare Flüssigkeiten

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VOC: Volatile Organic Compounds

VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe

WGK: Wassergefährdungsklasse (water hazardous class)

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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Revision: 0 / 12.02.2015

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1. Identification of the substance / mixture and of the company / undertaking

Trade name: Power Cleaner

Supplier: Gerd Eisenblätter GmbH

Jeschkenstraße 12d
82538 Geretsried
Phone: + 49 (0) 8171 / 9082 - 010

Emergencies: +49 (0) 8171 / 9082 - 010

2. Composition / Information on ingredients

Mixtures

Hazardous ingredients

CITRIC ACID

REACH registration No.: 01-2119457026-42-XXXX;

EC No.: 201-069-1; CAS No.: 77-92-9

Weight fraction: ≥ 1 - < 5 %

Classification 1272/2008 (CLP): Eye Irrit. 2; H319

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

3. Hazards identification

3.1. Classification of the substance or mixture

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

None.

3.2. Label elements

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

Special rules for supplemental label elements for certain mixtures

EUH210 Safety data sheet available on request.

3.3. Other hazards

None.

4. First aid measures

4.1. Description of first aid measures

After inhalation: Remove casualty to fresh air and keep warm and at rest.

After skin contact: After contact with skin, wash immediately with plenty of water and soap.
Rub greasy ointment into the skin.

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After eye contact: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After swallowing: Rinse mouth immediately and drink plenty of water. Call a physician immediately.

General information: When in doubt or if symptoms are observed, get medical advice.

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

None.

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

None.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing agents:

Water, foam, extinguishing powder, carbon dioxide (CO₂), sand, nitrogen, extinguishing blanket.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

Carbon dioxide (CO₂), Carbon monoxide.

5.3. Advice for fire fighters

The product itself does not burn. Adapt extinguishing measures to suit the environment.
Wear a self-contained breathing apparatus and chemical protective clothing.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Special danger of slipping by leaking / spilling product.

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

Clear spills immediately. Wipe up with absorbent material (e.g. cloth, fleece). Wash with plenty of water.
Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for disposal information.

7. Handling and storage

7.1. Precautions for safe handling

Keep container tightly closed.

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7.2. Conditions for safe storage, including any incompatibilities

Keep / Store only in original container. Protect against Frost.

Hints on joint storage

Storage class (TRGS 510): 12

Specific end use(s):

Observe technical data sheet. Observe instructions for use.

8. Exposure controls / personal protection

8.1. Control parameters

None.

8.2. Exposure controls

Personal protection equipment:

General health and safety measures:

Do not put any product-impregnated cleaning rags into your trouser pockets.

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P264 - Wash hands thoroughly after handling.

Protection of hands:

Wear protective gloves in case of longer lasting skin contact.

Suitable gloves type: EN 374.

Suitable material: NBR (Nitrile rubber).

Breakthrough time (maximum wearing time): 480 min.

Thickness of the glove material: 0.4 mm

Remark: The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye protection:

Wear suitable safety goggles in case of splash.

Suitable eye protection: Safety goggles acc. EN 166.

Additional information:

No tests have been performed. Selection made for preparations according to the best available knowledge and information on ingredients.

In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form: liquid

Colour: colourless

Odour: characteristic

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pH-value	2,2	
Vapour pressure (50°C):	not relevant	
Initial boiling point/ Boiling range (1013hPa)	ca. 100°C	
Flash point:	not relevant	
Danger of explosion: lower explosion limit: upper explosion limit:	not relevant not relevant	
Density (20°C):	ca. 1,05 g/cm ³	
Solubility (20°C):	completely miscible	
Solvent separation test (20°C):	not relevant	
Flow time (20°C):	not relevant	DIN-cup 4 mm
Maximum VOC content (EC):	0 Wt %	
Maximum VOC content (Switzerland):	0,9 Wt %	

9.2. Other information

None.

10. Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No information available.

11. Toxicological information

11.1. Information on toxicological effects

None

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Acute effects:

Acute oral toxicity

Parameter: LD50
(CITRIC ACID; CAS No.: 77-92-9)
Exposure route: Oral
Species: Rat
Effective dose: > 2000 mg/kg

11.2. Toxicokinetics, metabolism and distribution

There are no data available on the preparation / mixture itself.

11.3. Other adverse effects

Frequently or prolonged contact with skin may cause dermal irritation.

11.4. Additional information

Preparation not tested. The statement is derived from the properties of the single components.

12. Ecological information

12.1. Toxicity

No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

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.

12.6. Other adverse effects

None known.

12.7. Further ecological information

None.

13. Disposal considerations

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. List of proposed waste codes/waste designations in accordance with EWC.

13.1. Waste treatment methods

Product / Packaging disposal

Waste codes / waste designations according to EWC / AVV

Waste code product

20 01 29* - detergents containing dangerous substances.

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Waste code packaging

15 01 02 - plastic packaging.

Waste treatment options

Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning.
Handle contaminated packages in the same way as the substance itself.

13.2. Additional information

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

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.

14.5. Environmental hazards

No dangerous goods in sense of this transport regulation.

14.6. Special precautions for user

None.

15. Regulatory information

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

EU legislation

Other regulations (EU)

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

< 5 % non-ionic surfactants

< 5 % anionic surfactants

National regulations

AT: Labelling according to Austrian regulations (Chemikaliengesetz / ChemV).

CH: Chemikalienverordnung (ChemV) and Chemikalien-Risikoreduktions-Verordnung (Chem RRV) are complied.

Water hazard class (WGK)

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

Other regulations, restrictions and prohibition regulations

Betriebssicherheitsverordnung (BetrSichV)

No flammable liquid according to BetrSichV.

15.2. Chemical safety assessment

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

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16. Other information

Relevant H- and EUH-phrases (number and full text):

H319 Causes serious eye irritation.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX: adsorbable organohalogenes

CAS: Chemical Abstracts Service (division of the American Chemical Society)

CLP: Classification Labelling and Packaging (Regulation (EC) No. 1272/2008)

EAK / AVV: europäischer Abfallschlüsselkatalog (european waste catalogue)

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods

RCP: reciprocal calculation procedure

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

TRGS: Technische Regel für den Umgang mit Gefahrstoffen

VbF: Verordnung über brennbare Flüssigkeiten

VOC: volatile organic compound

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

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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Printing date: 22.01.16

Revision: 1 / 05.11.2013

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1. Identification of the substance / mixture and of the company / undertaking

Trade name: INOX PROTECT

Supplier: *Gerd Eisenblätter GmbH*

*Jeschkenstraße 12d
82538 Geretsried
Phone: + 49 (0) 8171 / 9082 - 010*

Emergencies: +49 (0) 8171 / 9082 - 010

2. Composition / Information on ingredients

Chemical characterisation:

Dangerous components:

WHITE MINERAL OIL (PETROLEUM)

REACH registration No.: 01-2119487078-27-XXXX

EC No: 232-455-8; CAS No. : 8042-47-5

Weight fraction: 10 - < 25 %

Classification 67/548/EEC: Xn; R65 R66

Classification 1272/2008 (CLP): Asp. Tox. 1; H304

ALCOHOLS, C16-18- AND C18 UNSAT., ETHOXY., PROPOX.

EC No: 932-102-4; CAS No. : 677026-24-3

Weight fraction: 1 - < 5 %

Classification 67/548/EEC: N; R50 Xi ; R38

Classification 1272/2008 (CLP): Skin Irrit. 2; H315 Aquatic Acute 1; H400

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

3. Hazards identification

3.1. Classification of the substance or mixture

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

Eye Dam. 1; H 318 - Serious eye damage / eye irritation: Category 1; Causes serious eye damage.

Skin Corr. 1A; H314 – Skin corrosion / irritation: Category 1; Causes severe skin burns and eye damage.

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

None.

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3.2. Label elements

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

Hazard pictograms

GHS05 (Corrosion)



Signal word

Danger

Hazard statements

H314 Causes severe skin burns and eye damage

Precautionary statements

P260 Do not breathe dust / fume / gas / mist / vapours / spray.

P264 Wash ... thoroughly after handling.

P310 Immediately call a POISON CENTER or doctor / physician.

P321 Specific treatment (see ... on this label).

P405 Store locked up.

P501 Dispose of contents / container to

Special rules for supplemental label elements for certain mixtures

EUH210 Safety data sheet available on request.

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

Special provisions concerning the labelling of certain mixtures

101 Safety data sheet available for professional user on request.

Additional information

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

3.3. Other hazards

None.

4. First aid measures

4.1. Description of first aid measures

After inhalation: In case of respiratory tract irritation, consult a physician.
Remove casualty to fresh air and keep warm and at rest.

After skin contact: After contact with skin, wash immediately with plenty of water and soap.
Rub greasy ointment into the skin.

After eye contact: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

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After swallowing: Rinse mouth immediately and drink plenty of water. Call a physician immediately.

General information: When in doubt or if symptoms are observed, get medical advice.

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.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing agents:

Water foam, extinguishing powder, carbon dioxide (CO₂), sand, nitrogen, extinguishing blanket.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: carbon monoxide, carbon dioxide (CO₂), sulphur oxides.

5.3. Advice for fire fighters

Do not inhale explosion and combustion gases.

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

Move undamaged containers from immediate hazard area if it can be done safely.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Special danger of slipping by leaking / spilling product.

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

Clear spills immediately. Wipe up with absorbent material (e.g. cloth, fleece). Wash with plenty of water.

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

6.4. Reference to other sections

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for disposal information.

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7. Handling and storage

7.1. Precautions for safe handling

Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

Keep / Store only in original container. Protect against Frost.

Hints on joint storage

Storage class (TRGS 510): 12

Specific end use(s):

Observe technical data sheet. Observe instructions for use.

8. Exposure controls / personal protection

8.1. Control parameters

None

8.2. Exposure controls

Personal protective equipment:

General protective and hygienic measures:

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.
Remove contaminated, saturated clothing immediately.

Protection of hands:

Wear protective gloves in case of longer lasting skin contact.

Suitable gloves type: EN 374.

Suitable material: NBR (Nitrile rubber).

Breakthrough time (maximum wearing time): 480 min.

Thickness of the glove material: 0.4 mm

Remark: The exact breakthrough time has to be requested from the protective glove manufacturer and limits has to be ensured.

Eye protection:

Wear suitable safety goggles in case of splash.

Suitable eye protection: Safety goggles acc. EN 166.

Additional information:

No tests have been performed. Selection made for preparations according to the best available knowledge and information on ingredients.

In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use.

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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form:	liquid	
Colour:	white	
Odour:	characteristic	
pH-value	ca. 11.5	
Vapour pressure (50°C):	n.a.	
Boiling temperature/ Boiling range (1013hPa)	ca. 95°C	
Flash point:	n.a.	
Ignition temperature:	n.a.	
Danger of explosion: lower explosion limit: upper explosion limit:	n.a. n.a.	
Density (20°C):	0.92 g/cm ³	
Solubility (20°C):	completely miscible	
Solvent separation test (20°C):	n.a.	
Flow time (20°C):	n.a.	DIN-cup 4 mm
Solidifying point (1013 hPa):	0°C	
Maximum VOC content (EC):	0 Wt %	
Maximum VOC content (Switzerland):	0 Wt %	

9.2. Other information

None.

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.

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10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Do not inhale explosion and combustion gases.

11. Toxicological information

11.1. Information on toxicological effects

Acute effects:

Acute oral toxicity

Parameter:	LD50 (WHITE MINERAL OIL (PETROLEUM); CAS No.: 8042-47-5)
Exposure route:	Oral
Species:	Rat
Effective dose:	> 5000 mg/kg
Method:	OECD 401
Parameter:	LD50 (ALCOHOLS, C16-18- AND C18 UNSAT., ETHOXY., PROPOX. ; CAS No. : 67706-24-3)
Exposure route:	Oral
Species:	Rat
Effective dose:	> 2000 mg/kg
Method:	OECD 401

Acute dermal toxicity

Parameter:	LD50 (WHITE MINERAL OIL (PETROLEUM); CAS No.: 8042-47-5)
Exposure route:	Dermal
Species:	Rabbit
Effective dose:	> 5000 mg/kg
Method:	OECD 402
Parameter:	LD50 (ALCOHOLS, C16-18- AND C18 UNSAT., ETHOXY., PROPOX. ; CAS No. : 67706-24-3)
Exposure route:	Dermal
Species:	Rat
Effective dose:	> 2000 mg/kg
Method:	OECD 402

Acute inhalation toxicity

Parameter:	LD50 (WHITE MINERAL OIL (PETROLEUM); CAS No.: 8042-47-5)
Exposure route:	Inhalation
Species:	Rat
Effective dose:	> 5000 mg/kg
Exposure time:	4 h
Method:	OECD 403

11.2. Toxicokinetics, metabolism and distribution

There are no data available on the preparation / mixture itself.

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11.3. Other adverse effects

Frequently or prolonged contact with skin may cause dermal irritation.

11.4. Additional information

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

12. Ecological information

12.1. Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter:	LC50 (WHITE MINERAL OIL(PETROLEUM) ; CAS No. : 8042-47-5)
Species:	Leuciscus idus (golden orfe)
Evaluation parameter:	Acute (short-term) fish toxicity
Effective dose:	> 100 mg/l
Exposure time:	96 h
Evaluation:	Harmless to fish up to the concentration tested.
Method:	OECD 203
Parameter:	LC50 (ALCOHOLS, C16-18- AND C18 UNSAT., ETHOXY., PROPOX. ; CAS No.: 677026-24-3)
Species:	Cyprinus carpio (Common Carp)
Evaluation parameter:	Acute (short-term) fish toxicity
Effective dose:	> 1 - 10 mg/l
Exposure time:	96 h
Method:	OECD 203
Parameter:	LC50 (WHITE MINERAL OIL (PETROLEUM); CAS No.: 8042-47-5)
Species:	Daphnia magna (Big water flea)
Evaluation parameter:	Acute (short-term) daphnia toxicity
Effective dose:	> 100 mg/l
Exposure time:	48 h
Evaluation:	Harmless to daphnia up to the tested concentration.
Method:	OECD 202
Parameter:	EC50 (WHITE MINERAL OIL (PETROLEUM); CAS No.: 8042-47-5)
Species:	Daphnia magna (Big water flea)
Evaluation parameter:	Chronic (long-term) daphnia toxicity
Effective dose:	> 1000 mg/l
Exposure time:	21 d
Method:	OECD 211

Acute (short-term) daphnia toxicity

Parameter:	EC50 (ALCOHOLS, C16-18- AND C18 UNSAT., ETHOXY., PROPOX. ; CAS No.: 677026-24-3)
Species:	Daphnia magna (Big water flea)
Evaluation parameter:	Acute (short-term) daphnia toxicity
Effective dose:	> 0,1 - 1 mg/l
Exposure time:	48 h
Method:	OECD 202

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Acute (short-term) algae toxicity

Parameter: EC50
(ALCOHOLS, C16-18- AND C18 UNSAT., ETHOXY., PROPOX. ; CAS No.: 677026-24-3)
Species: Desmodesmus subspicatus
Evaluation parameter: Acute (short-term) algae toxicity
Effective dose: > 0,1 - 1 mg/l
Exposure time: 72 h
Method: OECD 201

Bacteria toxicity

Parameter: EC50
(WHITE MINERAL OIL (PETROLEUM); CAS No.: 8042-47-5)
Species: Bacteria toxicity
Effective dose: > 100 mg/l
Exposure time: 40 h
Parameter: EC10
(ALCOHOLS, C16-18- AND C18 UNSAT., ETHOXY., PROPOX.; CAS No.: 677026-24-3)
Species: Pseudomonas putida
Evaluation parameter: Bacteria toxicity
Effective dose: > 2000 mg/l
Exposure time: 5,33 h

12.2. Persistence and degradability

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Biodegradation

Analytical method: Biodegradation
(WHITE MINERAL OIL (PETROLEUM); CAS No. : 8042-47-5)
Parameter: Degree of elimination
Type: Aerobic
Degradation rate: 24 %
Time: 28 d
Method: OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C
Analytical method: Biodegradation
(ALCOHOLS, C16-18-AND C18 UNSAT., ETHOXY., PROPOX.; CAS No.: 677026-24-3)
Parameter: Biodegradation
Type: Aerobic
Degradation rate: > 70 %
Time: 28 d
Evaluation: Readily biodegradable (according to OECD criteria).
Method: OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A
Analytical method: Biodegradation
(ALCOHOLS, C16-18- AND C18 UNSAT., ETHOXY., PROPOX.; CAS No.: 677026-24-3)
Parameter: Biodegradation
Type: Aerobic
Degradation rate: > 60 %
Time: 28 d
Evaluation: Readily biodegradable (according to OECD criteria).
Method: OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C

12.3. Bioaccumulative potential

No information available.

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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.

12.6. Other adverse effects

No information available.

12.7. Further ecological information

None

13. Disposal considerations

The waste codes are recommendations based on the schedule use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances.

13.1. Waste treatment methods

Product / Packaging disposal

Waste codes / waste designations according to EWC / AVV

Waste code product

07 06 01* - aqueous washing liquids and mother liquors

20 01 30 - detergents other than those mentioned in 20 01 29.

Waste code packaging

15 01 02 - plastic packaging.

Waste treatment options

Appropriate disposal / Package

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

13.2. Additional information

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

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.

14.5. Environmental hazards

No dangerous goods in sense of this transport regulation.

14.6. Special precautions for user

None

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15. Regulatory information

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

EU legislation

Other regulations (EU)

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

15 - 30 % aliphatic hydrocarbons

< 5 % non-ionic surfactants

National regulations

AT: Labelling according to Austrian regulations (Chemikaliengesetz / ChemV).

CH: Chemikalienverordnung (ChemV) and Chemikalien-Risikoreduktions-Verordnung (Chem RRV) are complied.

Restrictions of occupation

None

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

Other regulations, restrictions and prohibition regulations

VbF-Class : -

15.2. Chemical safety assessment

No information available.

16. Other information

Relevant R-phrases (number and full text):

- 38 Irritating to skin.
- 50 Very toxic to aquatic organism.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.

Relevant H- and EUH-phrases (number and full text):

- H304 May be fatal if swallowed and enters airways.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H400 Very toxic to aquatic life.

Abbreviations and acronyms

- ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route.
- RID: Règlement concernant le transport international ferroviaire de marchandises Dangereuses
- ADN: Accord européen relative au transport international des marchandises dangereuses par voie de navigation intérieure
- AVV: Abfallverzeichnis - Verordnung BGI: Berufsgenossenschaftliche Informationen
- CAS: Chemicals Abstracts Service
- CLP: Classification, Labelling and Packaging
- DMEL: Derived Minimum Effect Level
- DNEL: Derived No Effect Level
- EC50: Median effective concentration
- ECB: European Chemicals Bureau
- EEC: European Economic Community
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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IATA: International Air Transport Association
IBC-Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50: Inhibition concentration, 50%
IMDG: International Maritime Code for Dangerous Goods
IUCLID: International Uniform Chemical Information Database
LC50: Lethal concentration, 50%
LD50: Median lethal dose
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
PBT: Persistent, Bioaccumulative and Toxic substance
PNEC: Predicted No-Effect Concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
TLV®/TWA: Threshold limit value – time weighted average
TLV®STEL: Threshold limit value – short- time exposure limit TRGS: Technische Regeln für Gefahrstoffe
VOC: Volatile Organic Compounds
vPvB: very Persistent and very Bioaccumulative
VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe

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.