Safety Data Sheet
according to Ordinance (EC) No. 1907/2006

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

Trade name: **BRILLIANCE CLEAN**

Supplier: ***Gerd Eisenblätter GmbH***

Jeschkenstaße 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.

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 (CO_2), 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 (CO_2), 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.

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/m^3
Version:
Limit value type (country of origin): TRGS 900 (D)
Limit value: 200 ppm / 500 mg/m^3
Peak limitation: 2(II)
Remark: Y
Version: 01.09.2012

BUTYL CELLOSOLVE; CAS No.: 111-76-2
Limit value type (country of origin): STEL (D)
Limit value: 40 ppm / 196 mg/m^3
Version:
Limit value type (country of origin): TRGS 900 (D)
Limit value: 10 ppm / 49 mg/m^3
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/m^3
Remark: H
Version: 08.06.2000
Limit value type (country of origin): TWA (EC)
Limit value: 20 ppm / 98 mg/m^3
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/m^3
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/m^3
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/m^3
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

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/m^3
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.

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	
Solidifiying point (1234,1 % / 1256,1 Vol-%):	ca. -8°C	Brookfield
Maximum VOC content (EC): Maximum VOC content (Switzerland):	13 Wt % 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.

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
Methode:	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

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

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.

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

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 merchandises Dangereuses par Route.
AOX: adsorbable organohalogens
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 marchandieses 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 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.

Safety Data Sheet
according to Ordinance (EC) No. 1907/2006

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

Trade name: **Power Cleaner**

Supplier: ***Gerd Eisenblätter GmbH***

Jeschkenstaße 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.

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 (CO_2), sand, nitrogen, extinguishing blanket.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:
Carbon dioxide (CO_2), 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.

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

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): Maximum VOC content (Switzerland):	0 Wt % 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

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.

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.

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 organohalogens
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 Classifiaction 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 marchandieses 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

Safety Data Sheet
according to Ordinance (EC) No. 1907/2006

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

Trade name: **POLY Sealer**

Supplier: ***Gerd Eisenblätter GmbH***

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

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

2. Composition / Information on ingredients

Chemical characterisation: Mixtures

Dangerous components:

None

Further ingredients

WHITE MINERAL OIL (PETROLEUM)
EC-No.: 232-455-8; CAS-No.: 8042-47-5
Weight fraction: 50 - 100 %

(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.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC
None.

3.2. Label elements

None.

3.3. Other hazards

None.

4. First aid measures

4.1. Description of first aid measures

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

After skin contact: After contact with skin, wash immediately with plenty of water and soap.
In case of skin irritation, consult a physician.

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.
P338 - Remove contact lenses, if present and easy to do. Continue rinsing.

After swallowing: Do not induce vomiting. Call a physician immediately.

General information: Remove contaminated, saturated clothing immediately.
Do not put any product-impregnated cleaning rags into your trouser pockets.

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

May be fatal if swallowed and enters airways. Ingestion causes nausea, weakness and central nervous system effects.

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

None.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing agents:
Carbon dioxide (CO_2), water spray jet, extinguishing powder, foam.

Unsuitable extinguishing agents
High power water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products
Carbon monoxide, Sulphur oxides, Nitrogen oxides (NOx), carbon black.

5.3. Advice for fire fighters

Special protective equipment for firefighters
In case of fire: Wear a self-contained breathing apparatus.
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Special danger of slipping by leaking / spilling product. Remove all sources of ignition.

6.2. Environmental precautions
Do not allow to enter into surface water or drains. Do not allow to enter into soil / subsoil. Prevent spread over a wide area (e.g. by containment or oil barriers). Cover drains.

6.3. Methods and material for containment and cleaning up
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
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
P271 - Use only outdoors or in a well-ventilated area. Wear breathing apparatus if exposed to vapours / dusts / aerosols. Keep away from sources of ignition. - No smoking.

7.2. Conditions for safe storage, including any incompatibilities
Keep only in the original container in a cool, well-ventilated place. Protect against direct sunlight.
Hints on joint storage
Storage class (TRGS 510): 10
Do not store together with
Oxidising agent

Further information on storage conditions
Recommended storage temperature: > 5 - 50°C

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

Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

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.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form:	liquid
Colour:	clear
Odour:	characteristic
pH-value	n.a.
Vapour pressure (20°C):	0.1 hPa
Vapour pressure (50°C):	n.a.
Melting point/ Melting temperature (1013 hPa)	ca. -9°C
Boiling temperature/ Boiling range (1013hPa):	218 – 800°C
Decomposition temperature:	n.a.
Flash point:	ca. 266°C
Ignition temperature:	ca. 400°C
Danger of explosion:	
lower explosion limit:	n.a.
upper explosion limit:	n.a.

Density (20°C):	ca. 0.867 g/cm^3
Bulk density:	n.a.
Solubility (20°C):	insoluble
Solvent separation test (20°C):	n.a.
Flow time (20°C):	n.a.
Log P O/W:	No data available
Cinematic viscosity (40°C):	ca. 70 mm^2/s
Odour threshold:	n.a.
Relative vapour density (20°C):	No data available
Vapourisation rate:	n.a.
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
Reactions with strong oxidants are expected. Peroxides can be produced.

10.4. Conditions to avoid
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
Remove heat to avoid pressure rise.

10.5. Incompatible materials
Oxidising agent, strong.

10.6. Hazardous decomposition products
No information available.

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

Acute dermal toxicity

Parameter:	LD50 (WHITE MINERAL OIL (PETROLEUM); CAS-No.: 8042-47-5)
Exposure route:	Dermal
Species:	Rabbit
Effective dose:	> 2000 mg/kg
Method:	OECD 402

Acute inhalation toxicity

Parameter:	LC50 (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

11.4. 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)
Effective dose:	> 1000 mg/l
Exposure time:	96 h
Method:	OECD 203

Acute (short-term) daphnia toxicity

Parameter:	EC50 (WHITE MINERAL OIL (PETROLEUM); CAS-No.: 8042-47-5)
Species:	Daphnia magna (Big water flea)
Effective dose:	> 100 mg/l
Exposure time:	48 h
Method:	OECD 202

Chronic (long-term) algae toxicity

Parameter:	NOEC (WHITE MINERAL OIL (PETROLEUM); CAS-No.: 8042-47-5)
Species:	Pseudokirchneriella subcapitata
Effective dose:	> = 100 mg/l
Exposure time:	72 h
Method:	OECD 201

12.2. Persistence and degradability

Biodegradation

Analytical method:	Biodegradation (WHITE MINERAL OIL (PETROLEUM); CAS-No.: 8042-47-5)
Parameter:	Biodegradation
Degradation rate:	31,3 %
Time:	28 d
Evaluation:	Not readily biodegradable (according to OECD criteria).
Method:	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-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.

12.6. Other adverse effects
Do not allow uncontrolled discharge of product into the environment.

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
13 02 05* - mineral-based non-chlorinated engine, gear and lubricating oils.
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.

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
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)
Other regulations, restrictions and prohibition regulations
VbF-Class : -

15.2. Chemical safety assessment
No information available.

16. Other information

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

None.

Abbreviations and acronyms

ADR: Accord européen relatif au transport international des merchandises Dangereuses par Route.
AOX: adsorbable organohalogens
CAS: Chemicals Abstracts Service
CLP: Classification, Labelling and Packaging
EAK / AVV: europäischer Abfallschlüsselkatalog (european waste catalogue)
EINECS: European Inventory of Existing Commercial Chemical Substances
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VbF: Verordnung über brennbare Flüssigkeiten
VOC: Volatile Organic Compounds
VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe
WGK: Wassergefährdungsklasse (water hazardous class)