Safety Data Sheet

Revision Date 06-Nov-2014
Version 2.01

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

1.1 Product identifier

Product name Microban Milgo Plus

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

Recommended Use Disinfectant

1.3 Details of the supplier of the safety data sheet

Supplier

Dri-Eaz Products
15180 Josh Wilson Road
Burlington, WA 98233
Phone: (800) 932-3030

For further information, please contact: **ehs@prorestoreproducts.com**

1.4 Emergency telephone number

Emergency telephone number INFOTRAC 1-800-535-5053 (North America)
1-352-323-3500 (International)

Europe	112
Austria	+43 1 406 43 43
Belgium	Poison center (BE): +32 70 245 245
Denmark	Poison Control Hotline (DK): +45 82 12 12 12
Finland	Poison Information Centre (FI):+358 9 471 977
France	ORFILA (FR): + 01 45 42 59 59
Germany	Poison Center Berlin (DE): +49 030 30686 790 Poison Center Nord: +49 551 19240 (24h available English / German)
Ireland	National Poisons Information Centre (IE): +353 1 8379964
Iceland	+354 543 2222
Italy	Poison Center, Milan (IT): +39 02 6610 1029
Luxembourg	112
Netherlands	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)
Norway	Poisons Information (NO):+ 47 22 591300
Portugal	Poison Information Center (PT): +351 21 330 3284
Spain	Poison Information Service (ES): +34 91 562 04 20
Sweden	Poisons Information Center (SV):+46 8 33 12 31
Switzerland	Poison Center: Tel 145; +41 44 251 51 51
United Kingdom	NHS Direct (UK): +44 (0) 845 46 47; 111

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to EU Directives 67/548/EEC or 1999/45/EC

C;R35 - R42

For the full text of the R-phrases mentioned in this Section, see Section 16

2.2 Label elements

Indication of danger
C - Corrosive

R-phrase(s)
R35 - Causes severe burns
R42 - May cause sensitization by inhalation

S-phrase(s)
S23 - Do not breathe gas/fumes/vapor/spray
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Contains TETRASODIUM EDTA

2.3 Other hazards

No information available

3. Composition/information on ingredients

3.1 Substances

This product is a mixture. Health hazard information is based on its components.

3.2 Mixtures

Chemical Name	EC-No	CAS-No	Weight %	Classification (67/548/EEC)	Classification (1272/2008/EC)	REACH Registration Number
TETRASODIUM EDTA	200-573-9	64-02-8	1 - 2.5	Xn; R22 R42	Resp. Sens. 1 (H334) Acute Tox. 4 (H302)	no data available
Ethanol	200-578-6	64-17-5	1 - 2.5	F; R11	Flam. Liq. 2 (H225)	no data available
Sodium hydroxide	215-185-5	1310-73-2	< 0.1	C; R35	Skin Corr. 1A (H314)	01-2119457892-27-xxxx
POLY(OXY-1,2-ETHANEDIYL), A-HYDRO-O-HYDROXY-	-	25322-68-3	< 0.1	Xi; R36	Eye Irrit. 2 (H319)	no data available
Formaldehyde	200-001-8	50-00-0	< 0.1	T; R23/24/25 C; R34 Carc.Cat.2; R45 R43 Muta.Cat.3; R68	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Muta. 2 (H341) Carc. 1B (H350)	01-2119488953-20-XXXX

TOLUENE	203-625-9	108-88-3	< 0.1	F; R11 Xi; R38 Xn; R48/20-65 Repr.Cat.3; R63 R67	Skin Irrit. 2 (H315) Repr. 2 (H361d) STOT SE 3 (H336) STOT RE 2 (H373) Asp. Tox. 1 (H304) Flam. Liq. 2 (H225)	no data available
Benzene	200-753-7	71-43-2	< 0.1	F; R11 Xi; R36/38 Carc.Cat.1; R45 Muta.Cat.2; R46 T; R48/23/24/25 Xn; R65	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Muta. 1B (H340) Carc. 1A (H350) STOT RE 1 (H372) Asp. Tox. 1 (H304) Flam. Liq. 2 (H225)	no data available
Propylene Oxide	200-879-2	75-56-9	< 0.1	F+; R12 Xn; R20/21/22 Xi; R36/37/38 Carc.Cat.2; R45 Muta.Cat.2; R46	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Muta. 1B (H340) Carc. 1B (H350) STOT SE 3 (H335) Flam. Liq. 1 (H224)	no data available
Ethylene oxide	200-849-9	75-21-8	< 0.1	F+; R12 T; R23 Xi; R36/37/38 Carc.Cat.2; R45 Muta.Cat.2; R46 R6	Acute Tox. 3 (H331) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Muta. 1B (H340) Carc. 1B (H350) STOT SE 3 (H335) Flam. Gas 1 (H220) Press. Gas	no data available
Acetaldehyde	200-836-8	75-07-0	< 0.1	F+; R12 Xi; R36/37 Carc.Cat.3; R40	Eye Irrit. 2 (H319) Carc. 2 (H351) STOT SE 3 (H335) Flam. Liq. 1 (H224)	no data available

For the full text of the R-phrases mentioned in this Section, see Section 16

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

4. First aid measures

4.1 Description of first-aid measures

General advice When symptoms persist or in all cases of doubt seek medical advice.

Eye contact Remove contact lenses. Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention.

Skin contact Wash off immediately with soap and plenty of water. Use a mild soap if available.

Ingestion Gently wipe or rinse the inside of the mouth with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention.

Inhalation Move to fresh air. Get medical attention immediately if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

Main Symptoms No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, fog, Carbon dioxide (CO_2), foam or dry chemical.

Extinguishing media which shall not be used for safety reasons
High volume water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous Combustion Products
Hazardous decomposition products formed under fire conditions.

5.3 Advice for firefighters

Special protective equipment for fire-fighters
In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment.

6.2 Environmental precautions

Prevent product from entering drains. Do not allow material to contaminate ground water system.

6.3 Methods and materials for containment and cleaning up

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

See Section 12 for additional information.

7. Handling and storage

7.1 Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Use only in well-ventilated areas.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from frost.

7.3 Specific end uses

Specific use(s)
No information available

Exposure scenario
No information available.

8. Exposure controls/personal protection

8.1 Control parameters

Exposure Limit Values .

Chemical Name	European Union	Austria	Belgium	Denmark	Finland	France
Ethanol 64-17-5		STEL 2000 ppm STEL 3800 mg/m³ TWA: 1000 ppm TWA: 1900 mg/m³	TWA: 1000 ppm TWA: 1907 mg/m³	TWA: 1000 ppm TWA: 1900 mg/m³	TWA: 1000 ppm TWA: 1900 mg/m³ STEL: 1300 ppm STEL: 2500 mg/m³	TWA: 1000 ppm TWA: 1900 mg/m³ STEL: 5000 ppm STEL: 9500 mg/m³
Sodium hydroxide 1310-73-2		STEL 4 mg/m³ TWA: 2 mg/m³	Maximum Limit Value: 2 mg/m³	Ceiling: 2 mg/m³	STEL: 2 mg/m³ Ceiling: 2 mg/m³	TWA: 2 mg/m³
POLY(OXY-1,2-ETHANEDIYL), A-HYDRO-O-HYDROXY- 25322-68-3		STEL 4000 mg/m³ TWA: 1000 mg/m³				
Formaldehyde 50-00-0		Skin STEL 0.5 ppm STEL 0.6 mg/m³ TWA: 0.5 ppm TWA: 0.6 mg/m³ Ceiling 0.5 ppm Ceiling 0.6 mg/m³	Maximum Limit Value: 0.3 ppm Maximum Limit Value: 0.38 mg/m³	Ceiling: 0.3 ppm Ceiling: 0.4 mg/m³	TWA: 0.3 ppm TWA: 0.37 mg/m³ STEL: 1 ppm STEL: 1.2 mg/m³ Ceiling: 1 ppm Ceiling: 1.2 mg/m³	TWA: 0.5 ppm STEL: 1 ppm
Benzene 71-43-2	S* TWA 1 ppm measured or calculated in relation to a reference period of eight hours TWA 3.25 mg/m³ measured or calculated in relation to a reference period of eight hours	Skin	TWA: 1 ppm TWA: 3.25 mg/m³ S*	TWA: 0.5 ppm TWA: 1.6 mg/m³ Skin	TWA: 1 ppm TWA: 3.25 mg/m³ Skin	TWA: 1 ppm TWA: 3.25 mg/m³ TWA: 1000 mg/m³ STEL: 1500 mg/m³
TOLUENE 108-88-3	TWA: 50 ppm TWA: 192 mg/m³ Skin	Skin STEL 100 ppm STEL 380 mg/m³ TWA: 50 ppm TWA: 190 mg/m³	TWA: 20 ppm TWA: 77 mg/m³ S* STEL: 100 ppm STEL: 384 mg/m³	TWA: 25 ppm TWA: 94 mg/m³ Skin	TWA: 25 ppm TWA: 81 mg/m³ STEL: 100 ppm STEL: 380 mg/m³ Skin	TWA: 20 ppm TWA: 76.8 mg/m³ TWA: 1000 mg/m³ STEL: 100 ppm STEL: 384 mg/m³ STEL: 1500 mg/m³
Propylene Oxide 75-56-9		Skin	TWA: 2 ppm TWA: 5 mg/m³	TWA: 5 ppm TWA: 12 mg/m³ Skin	TWA: 1 ppm TWA: 2.4 mg/m³ Skin	TWA: 20 ppm TWA: 50 mg/m³
Ethylene oxide 75-21-8		Skin	TWA: 1 ppm TWA: 1.8 mg/m³	TWA: 1 ppm TWA: 1.8 mg/m³	TWA: 1 ppm TWA: 1.8 mg/m³	TWA: 1 ppm STEL: 5 ppm
Acetaldehyde 75-07-0		STEL 50 ppm STEL 90 mg/m³ TWA: 50 ppm TWA: 90 mg/m³ Ceiling 50 ppm Ceiling 90 mg/m³	Maximum Limit Value: 25 ppm Maximum Limit Value: 46 mg/m³	Ceiling: 25 ppm Ceiling: 45 mg/m³	STEL: 25 ppm STEL: 46 mg/m³	TWA: 100 ppm TWA: 180 mg/m³

Chemical Name	Germany	Iceland	Ireland	Italy	Luxembourg	The Netherlands
Ethanol 64-17-5	TWA: 500 ppm TWA: 960 mg/m³	TWA: 1000 ppm TWA: 1900 mg/m³ Ceiling: 2000 ppm Ceiling: 3800 mg/m³	STEL: 1000 ppm	STEL: 1000 ppm STEL: 1884 mg/m³		Skin STEL: 1900 mg/m³ TWA: 260 mg/m³
Sodium hydroxide 1310-73-2		STEL: 2 mg/m³	STEL: 2 mg/m³			
POLY(OXY-1,2-ETHANEDIYL), A-HYDRO-O-HYDROXY- 25322-68-3	TWA: 1000 mg/m³					

Formaldehyde 50-00-0	TWA: 0.3 ppm TWA: 0.37 mg/m³	TWA: 0.3 ppm TWA: 0.4 mg/m³ Ceiling: 0.6 ppm Ceiling: 0.8 mg/m³ STEL: 1 ppm STEL: 1.2 mg/m³	TWA: 2 ppm TWA: 2.5 mg/m³ STEL: 2 ppm STEL: 2.5 mg/m³			STEL: 0.5 mg/m³ TWA: 0.15 mg/m³
Benzene 71-43-2		TWA: 0.5 ppm TWA: 1.6 mg/m³ S* Ceiling: 1 ppm Ceiling: 3.2 mg/m³	TWA: 1 ppm TWA: 3 mg/m³ STEL: 3 ppm STEL: 9 mg/m³ Skin	TWA: 1 ppm TWA: 3.25 mg/m³ STEL: 2.5 ppm STEL: 8 mg/m³ TWA: 0.5 ppm TWA: 1.6 mg/m³ Skin	TWA: 1 ppm TWA: 3.25 mg/m³	Skin TWA: 3.25 mg/m³
TOLUENE 108-88-3	TWA: 50 ppm TWA: 190 mg/m³	TWA: 25 ppm TWA: 94 mg/m³ S* Ceiling: 50 ppm Ceiling: 188 mg/m³ STEL: 50 ppm STEL: 188 mg/m³	TWA: 50 ppm TWA: 192 mg/m³ STEL: 384 mg/m³ STEL: 100 ppm Skin	TWA: 50 ppm TWA: 192 mg/m³ TWA: 20 ppm TWA: 75.4 mg/m³ Skin	S* STEL: 100 ppm STEL: 384 mg/m³ TWA: 50 ppm TWA: 192 mg/m³	STEL: 384 mg/m³ TWA: 150 mg/m³
Propylene Oxide 75-56-9	TWA: 2 ppm TWA: 48 mg/m³	TWA: 5 ppm TWA: 12 mg/m³ S* Ceiling: 10 ppm Ceiling: 24 mg/m³	TWA: 5 ppm TWA: 12 mg/m³ STEL: 15 ppm STEL: 36 mg/m³	TWA: 2 ppm TWA: 4.8 mg/m³		TWA: 6 mg/m³
Ethylene oxide 75-21-8		TWA: 1 ppm TWA: 1.8 mg/m³ S* Ceiling: 2 ppm Ceiling: 3.6 mg/m³	TWA: 5 ppm TWA: 10 mg/m³ STEL: 15 ppm STEL: 30 mg/m³	TWA: 1 ppm TWA: 1.8 mg/m³		TWA: 0.84 mg/m³
Acetaldehyde 75-07-0	TWA: 50 ppm TWA: 91 mg/m³	STEL: 25 ppm STEL: 45 mg/m³	TWA: 25 ppm TWA: 45 mg/m³ STEL: 25 ppm STEL: 45 mg/m³			STEL: 92 mg/m³ TWA: 37 mg/m³
Chemical Name	**Norway**	**Portugal**	**Spain**	**Sweden**	**Switzerland**	**The United Kingdom**
Ethanol 64-17-5	TWA: 500 ppm TWA: 950 mg/m³ STEL: 625 ppm STEL: 1187.5 mg/m³	TWA: 1000 ppm	STEL: 1000 ppm STEL: 1910 mg/m³	LLV: 500 ppm LLV: 1000 mg/m³ STV: 1000 ppm STV: 1900 mg/m³	STEL: 1000 ppm STEL: 1920 mg/m³ TWA: 500 ppm TWA: 960 mg/m³	STEL: 3000 ppm STEL: 5760 mg/m³ TWA: 1000 ppm TWA: 1920 mg/m³
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m³	Ceiling: 2 mg/m³	STEL: 2 mg/m³	LLV: 1 mg/m³ CLV: 2 mg/m³	STEL: 2 mg/m³ TWA: 2 mg/m³	STEL: 2 mg/m³
POLY(OXY-1,2-ETHANEDIYL), A-HYDRO-O-HYDROXY- 25322-68-3					TWA: 1000 mg/m³	
Formaldehyde 50-00-0	TWA: 0.5 ppm TWA: 0.6 mg/m³ Ceiling: 1 ppm Ceiling: 1.2 mg/m³ STEL: 1.5 ppm STEL: 1.8 mg/m³	Ceiling: 0.3 ppm	STEL: 0.3 ppm STEL: 0.37 mg/m³	LLV: 0.3 ppm LLV: 0.37 mg/m³ S* CLV: 0.6 ppm CLV: 0.74 mg/m³	STEL: 0.6 ppm STEL: 0.74 mg/m³ TWA: 0.3 ppm TWA: 0.37 mg/m³	STEL: 2 ppm STEL: 2.5 mg/m³ TWA: 2 ppm TWA: 2.5 mg/m³
Benzene 71-43-2	TWA: 1 ppm TWA: 3 mg/m³ STEL: 3 ppm STEL: 6 mg/m³	STEL: 2.5 ppm TWA: 0.5 ppm	S* TWA: 1 ppm TWA: 3.25 mg/m³	LLV: 0.5 ppm LLV: 1.5 mg/m³ S* STV: 3 ppm STV: 9 mg/m³	Skin TWA: 0.5 ppm TWA: 1.6 mg/m³	STEL: 3 ppm STEL: 9.75 mg/m³ TWA: 1 ppm TWA: 3.25 mg/m³ Skin
TOLUENE 108-88-3	TWA: 25 ppm TWA: 94 mg/m³ Skin STEL: 37.5 ppm STEL: 141 mg/m³	STEL: 100 ppm STEL: 384 mg/m³ TWA: 50 ppm TWA: 192 mg/m³	S* STEL: 100 ppm STEL: 384 mg/m³ TWA: 50 ppm TWA: 192 mg/m³	LLV: 50 ppm LLV: 192 mg/m³ S* STV: 100 ppm STV: 384 mg/m³	Skin STEL: 200 ppm STEL: 760 mg/m³ TWA: 50 ppm TWA: 190 mg/m³	STEL: 100 ppm STEL: 384 mg/m³ TWA: 50 ppm TWA: 191 mg/m³ Skin
Propylene Oxide 75-56-9	TWA: 1 ppm TWA: 2 mg/m³ Skin STEL: 3 ppm STEL: 4 mg/m³	TWA: 2 ppm	TWA: 2 ppm TWA: 4.8 mg/m³	LLV: 2 ppm LLV: 5 mg/m³ STV: 10 ppm STV: 25 mg/m³	TWA: 2.5 ppm TWA: 6 mg/m³	STEL: 15 ppm STEL: 36 mg/m³ TWA: 5 ppm TWA: 12 mg/m³

Ethylene oxide 75-21-8	TWA: 1 ppm STEL: 3 ppm	TWA: 1 ppm	TWA: 1 ppm TWA: 1.8 mg/m³	LLV: 1 ppm LLV: 2 mg/m³ S* STV: 5 ppm STV: 9 mg/m³	Skin TWA: 1 ppm TWA: 2 mg/m³	STEL: 15 ppm STEL: 27.6 mg/m³ TWA: 5 ppm TWA: 9.2 mg/m³
Acetaldehyde 75-07-0	TWA: 25 ppm TWA: 45 mg/m³ STEL: 37.5 ppm STEL: 67.5 mg/m³	Ceiling: 25 ppm	STEL: 25 ppm STEL: 46 mg/m³	LLV: 25 ppm LLV: 45 mg/m³ STV: 50 ppm STV: 90 mg/m³	STEL: 50 ppm STEL: 90 mg/m³ TWA: 90 mg/m³ TWA: 50 ppm	STEL: 50 ppm STEL: 92 mg/m³ TWA: 20 ppm TWA: 37 mg/m³

TWA: Time weighted average
STEL: Short term exposure limit
LLV: Level Limit Value
STV: Short Term Value

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2 Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/Face Protection Safety glasses with side-shields.
Hand Protection Protective gloves.
Skin and body protection Long sleeved clothing.
Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene measures When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

Environmental Exposure Controls Prevent product from entering drains. Do not allow material to contaminate ground water system.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear liquid
Color	colorless
Odor	Slight Alcohol

Property	**Values**	**Remarks • Methods**
pH	12.4	
Boiling point/boiling range		
Flash Point	93 °C / 199 °F	
Explosion Limits		
upper	no data available	
lower	no data available	
Vapor pressure	no data available	
Vapor density	Not Applicable	
Relative density	1.01	
Water solubility	completely soluble	
Partition coefficient: n-octanol/water	Not Applicable	
Viscosity, kinematic	Not Applicable	
Explosive properties	Not Applicable	
Evaporation rate	Not Applicable	

9.2 Other information

Volatile organic compounds (VOC) content	11.1 g/L
Bulk Density	Not Applicable
Melting/freezing point	

10. Stability and reactivity

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous Polymerization
Hazardous polymerization does not occur.

10.4 Conditions to Avoid

Protect from frost, heat and sunlight.

10.5 Incompatible Materials

Metals.

10.6 Hazardous Decomposition Products

None known

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product Information Product does not present an acute toxicity hazard based on known or supplied information at the Product level.

Inhalation There are no data available for this product.

Eye contact There are no data available for this product.

Skin contact There are no data available for this product.

Ingestion There are no data available for this product.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
TETRASODIUM EDTA	1658 mg/kg (Rat)		
Ethanol			124.7 mg/L (Rat) 4 h
Sodium hydroxide		1350 mg/kg (Rabbit)	
POLY(OXY-1,2-ETHANEDIYL), A-HYDRO-O-HYDROXY-		20 mL/kg (Rabbit)	
Formaldehyde	600 mg/kg (Rat)	270 mg/kg (Rabbit)	0.578 mg/L (Rat) 4 h
TOLUENE	2600 mg/kg (Rat)	12000 mg/kg (Rabbit)	12.5 mg/L (Rat) 4 h
Benzene	810 mg/kg (Rat)	8200 mg/kg (Rabbit)	44.66 mg/L (Rat) 4 h
Propylene Oxide	520 mg/kg (Rat)	1244 mg/kg (Rabbit)	0.948 mg/L (Rat) 4 h
Ethylene oxide	72 mg/kg (Rat)		800 ppm (Rat) 4 h
Acetaldehyde	660 mg/kg (Rat)		13000 ppm (Rat) 4 h

Chronic toxicity May cause adverse liver effects. Contains a known or suspected reproductive toxin.

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Target Organ Effects Blood. Central nervous system. Eyes. Liver. Reproductive system. Respiratory system. Skin.

Germ Cell Mutagenicity No information available.

Reproductive toxicity No information available.

Specific target organ systemic toxicity (single exposure) No information available.

Specific target organ systemic toxicity (repeated exposure) No information available.

Aspiration hazard No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical Name	European Union
Formaldehyde	Carc. 1B
Benzene	Carc. 1A
Propylene Oxide	Carc. 1B
Ethylene oxide	Carc. 1B
Acetaldehyde	Carc. 2

12. Ecological information

12.1 Toxicity

Ecotoxicity effects .

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms	Toxicity to other organisms
TETRASODIUM EDTA	EC50: 72 h Desmodesmus subspicatus 1.01 mg/L	LC50: 96 h Lepomis macrochirus 41 mg/L static LC50: 96 h Pimephales promelas 59.8 mg/L static			
Ethanol		LC50: 96 h Oncorhynchus mykiss 12.0 - 16.0 mL/L static LC50: 96 h Pimephales promelas 100 mg/L static LC50: 96 h Pimephales promelas 13400 - 15100 mg/L flow-through	LC50: 48 h Daphnia magna 9268 - 14221 mg/L EC50: 48 h Daphnia magna 2 mg/L Static		
Sodium hydroxide		LC50: 96 h Oncorhynchus mykiss 45.4 mg/L static			
Formaldehyde		LC50: 96 h Pimephales promelas 22.6 - 25.7 mg/L flow-through LC50: 96 h Lepomis macrochirus 1510 µg/L static LC50: 96 h Brachydanio rerio 41 mg/L static LC50: 96 h Oncorhynchus mykiss 0.032 - 0.226 mL/L flow-through LC50: 96 h Oncorhynchus mykiss 100 - 136 mg/L static LC50: 96 h Pimephales promelas 23.2 - 29.7 mg/L static	LC50: 48 h Daphnia magna 2 mg/L EC50: 48 h Daphnia magna 11.3 - 18 mg/L Static		
TOLUENE	EC50: 96 h Pseudokirchneriella subcapitata 433 mg/L EC50: 72 h Pseudokirchneriella subcapitata 12.5 mg/L static	LC50: 96 h Pimephales promelas 15.22 - 19.05 mg/L flow-through LC50: 96 h Pimephales promelas 12.6 mg/L static LC50: 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L flow-through LC50: 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L static LC50: 96 h Oncorhynchus mykiss 5.8 mg/L semi-static LC50: 96 h Lepomis macrochirus 11.0 - 15.0 mg/L static LC50: 96 h Oryzias latipes 54 mg/L static LC50: 96 h Poecilia reticulata 28.2 mg/L semi-static LC50: 96 h Poecilia reticulata 50.87 - 70.34 mg/L static	EC50: 48 h Daphnia magna 5.46 - 9.83 mg/L Static EC50: 48 h Daphnia magna 11.5 mg/L		

Benzene	EC50: 72 h Pseudokirchneriella subcapitata 29 mg/L	LC50: 96 h Pimephales promelas 10.7 - 14.7 mg/L flow-through LC50: 96 h Oncorhynchus mykiss 5.3 mg/L flow-through LC50: 96 h Lepomis macrochirus 22.49 mg/L static LC50: 96 h Poecilia reticulata 28.6 mg/L static LC50: 96 h Pimephales promelas 22330 - 41160 µg/L static LC50: 96 h Lepomis macrochirus 70000 - 142000 µg/L static	EC50: 48 h Daphnia magna 8.76 - 15.6 mg/L Static EC50: 48 h Daphnia magna 10 mg/L		
Propylene Oxide	EC50: 96 h Pseudokirchneriella subcapitata 240 mg/L	LC50: 96 h Lepomis macrochirus 215 mg/L static	EC50: 48 h Daphnia magna 350 mg/L		
Ethylene oxide		LC50: 96 h Pimephales promelas 73 - 96 mg/L	LC50: 48 h Daphnia magna 137 - 300 mg/L		
Acetaldehyde		LC50: 96 h Pimephales promelas 28.0 - 34.0 mg/L flow-through LC50: 96 h Lepomis macrochirus 53 mg/L static LC50: 96 h Oncorhynchus mykiss 1.8 - 2.4 mg/L static LC50: 96 h Pimephales promelas 39.8 - 46.8 mg/L static	EC50: 48 h Daphnia magna 3.64 - 6.15 mg/L Static EC50: 48 h Daphnia magna 48.3 mg/L		

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

Chemical Name	log Pow
Ethanol	-0.32
Formaldehyde	0.35
TOLUENE	2.65
Benzene	1.83
Propylene Oxide	0.08
Ethylene oxide	-0.3
Acetaldehyde	0.5

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available

12.6 Other adverse effects

No adverse effects are expected.

13. Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal.

Other information
According to the European Waste Catalog, Waste Codes are not product specific, but application specific.

14. Transport information

ADR	Not regulated
IMDG	Not regulated
IATA	Not regulated

15. Regulatory information

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

National regulatory information

Germany WGK Classification	Not determined
Denmark - MAL Factor	Not determined

International Inventories

TSCA	Complies
EINECS/ELINCS	-
DSL	-
PICCS	Complies
ENCS	-
IECSC	Complies
AICS	Complies
KECL	Complies

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
"-" - Unknown. Not listed.

15.2 Chemical Safety Assessment

No information available

16. Other information

Full text of R-phrases referred to under sections 2 and 3
R42 - May cause sensitization by inhalation
R22 - Harmful if swallowed
R11 - Highly flammable
R35 - Causes severe burns
R36 - Irritating to eyes
R34 - Causes burns
R40 - Limited evidence of a carcinogenic effect
R43 - May cause sensitization by skin contact
R67 - Vapors may cause drowsiness and dizziness
R63 - Possible risk of harm to the unborn child
R38 - Irritating to skin
R65 - Harmful: may cause lung damage if swallowed
R45 - May cause cancer
R46 - May cause heritable genetic damage
R12 - Extremely flammable
R 6 - Explosive with or without contact with air
R23 - Toxic by inhalation
R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed
R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation
R48/23/24/25 - Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed
R36/38 - Irritating to eyes and skin
R36/37/38 - Irritating to eyes, respiratory system and skin
R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed
R36/37 - Irritating to eyes and respiratory system

Full text of H-Statements referred to under section 3
H315 - Causes skin irritation
H361d - Suspected of damaging the unborn child
H336 - May cause drowsiness or dizziness
H373 - May cause damage to organs (a,b,c) through prolonged or repeated exposure if inhaled
H304 - May be fatal if swallowed and enters airways
H225 - Highly flammable liquid and vapor
H314 - Causes severe skin burns and eye damage
H319 - Causes serious eye irritation
H301 - Toxic if swallowed
H311 - Toxic in contact with skin
H331 - Toxic if inhaled
H317 - May cause an allergic skin reaction
H341 - Suspected of causing genetic defects if inhaled
H350 - May cause cancer if swallowed
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H302 - Harmful if swallowed
H340 - May cause genetic defects if inhaled
H372 - Causes damage to organs (a,b,c) through prolonged or repeated exposure if inhaled
H351 - Suspected of causing cancer if inhaled
H335 - May cause respiratory irritation
H224 - Extremely flammable liquid and vapor
H220 - Extremely flammable gas
H312 - Harmful in contact with skin
H332 - Harmful if inhaled

Revision Date 06-Nov-2014

Revision Note Not Applicable.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet