Safety Data Sheet

Revision Date 25-Nov-2014
Version 1

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

1.1 Product identifier

Product name Microban Milgo SR

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

Recommended Use Deodorizer

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

R10

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

2.2 Label elements

Indication of danger
R-phrase(s)
R10 - Flammable

S-phrase(s)
No information available

Contains 2,6-OCTADIENAL, 3,7-DIMETHYL-. May produce an allergic reaction

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
Ethanol	200-578-6	64-17-5	2.5 - 10	F; R11	Flam. Liq. 2 (H225)	no data available
DIPROPYLENE GLYCOL	246-770-3	25265-71-8	< 1	-		no data available
2,6-OCTADIENAL, 3,7-DIMETHYL-	226-394-6	5392-40-5	< 1	Xi; R38 R43	Skin Irrit. 2 (H315) Skin Sens. 1 (H317)	no data available
ISOPROPYL ALCOHOL	200-661-7	67-63-0	< 1	F; R11 Xi; R36 R67	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225)	01-2119457558-25-xxxx
POLY(OXY-1,2-ETHANEDIYL), A-HYDRO-O-HYDROXY-	-	25322-68-3	< 1	Xi; R36	Eye Irrit. 2 (H319)	no data available
Glutaraldehyde	203-856-5	111-30-8	< 0.1	T; R23/25 C; R34 R42/43 N; R50	Acute Tox. 3 (H301) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)	no data available
METHANOL	200-659-6	67-56-1	< 0.1	F; R11 T; R23/24/25-39/23/24/25	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370) Flam. Liq. 2 (H225)	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)	no data available

					Flam. Gas 1 (H220) Press. Gas	
1,4-DIOXANE	204-661-8	123-91-1	< 0.1	F; R11-19 Xi; R36/37 Carc.Cat.3; R40 R66	Eye Irrit. 2 (H319) Carc. 2 (H351) STOT SE 3 (H335) Flam. Liq. 2 (H225) (EUH066) (EUH019)	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 Show this material safety data sheet to the doctor in attendance. When symptoms persist or in all cases of doubt seek medical advice.

Eye contact Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician if irritation develops or persists.

Skin contact Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes. Use a mild soap if available. Call a physician if irritation develops or persists.

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

Inhalation Move to fresh air. If not breathing, give artificial respiration. Consult a physician after significant exposure.

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. Flash back possible over considerable distance.

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. Keep containers and surroundings cool with water spray. 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

Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. 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). Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Electrical equipment should be protected to the appropriate standard.

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. Do not breathe vapors or spray mist. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentration higher than the occupational exposure limits. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Keep away from sources of ignition - No smoking. Use only in area provided with appropriate exhaust ventilation. Use only explosion-proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Electrical equipment should be protected to the appropriate standard.

7.2 Conditions for safe storage, including any incompatibilities

Keep locked up or in an area accessible only to qualified or authorized persons. Store between 41 and 77 °F (5 - 25° C) in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store in original container.

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
ISOPROPYL ALCOHOL 67-63-0		STEL 800 ppm STEL 2000 mg/m³ TWA: 200 ppm TWA: 500 mg/m³	TWA: 200 ppm TWA: 500 mg/m³ STEL: 400 ppm STEL: 1000 mg/m³	TWA: 200 ppm TWA: 490 mg/m³	TWA: 200 ppm TWA: 500 mg/m³ STEL: 250 ppm STEL: 620 mg/m³	STEL: 400 ppm STEL: 980 mg/m³
POLY(OXY-1,2-ETHA		STEL 4000 mg/m³				

NEDIYL), A-HYDRO-O-HYDROXY- 25322-68-3		TWA: 1000 mg/m³				
Glutaraldehyde 111-30-8		STEL 0.05 ppm STEL 0.2 mg/m³ TWA: 0.05 ppm TWA: 0.2 mg/m³ Ceiling 0.05 ppm Ceiling 0.2 mg/m³	Maximum Limit Value: 0.05 ppm Maximum Limit Value: 0.21 mg/m³	Ceiling: 0.2 ppm Ceiling: 0.8 mg/m³	STEL: 0.1 ppm STEL: 0.42 mg/m³ Ceiling: 0.1 ppm Ceiling: 0.42 mg/m³	TWA: 0.1 ppm TWA: 0.4 mg/m³ STEL: 0.2 ppm STEL: 0.8 mg/m³
METHANOL 67-56-1	TWA: 200 ppm TWA: 260 mg/m³ Skin	Skin STEL 800 ppm STEL 1040 mg/m³ TWA: 200 ppm TWA: 260 mg/m³	TWA: 200 ppm TWA: 266 mg/m³ S* STEL: 250 ppm STEL: 333 mg/m³	TWA: 200 ppm TWA: 260 mg/m³ Skin	TWA: 200 ppm TWA: 270 mg/m³ STEL: 250 ppm STEL: 330 mg/m³ Skin	TWA: 200 ppm TWA: 260 mg/m³ STEL: 1000 ppm STEL: 1300 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
1,4-DIOXANE 123-91-1		Skin STEL 40 ppm STEL 146 mg/m³ TWA: 20 ppm TWA: 73 mg/m³	TWA: 20 ppm TWA: 73 mg/m³ S*	TWA: 10 ppm TWA: 36 mg/m³ Skin	TWA: 10 ppm TWA: 36 mg/m³ STEL: 40 ppm STEL: 150 mg/m³ Skin	TWA: 20 ppm TWA: 73 mg/m³ STEL: 40 ppm STEL: 140 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
DIPROPYLENE GLYCOL 25265-71-8	TWA: 100 mg/m³					
2,6-OCTADIENAL, 3,7-DIMETHYL- 5392-40-5				TWA: 5 ppm TWA: 31 mg/m³		
ISOPROPYL ALCOHOL 67-63-0	TWA: 200 ppm TWA: 500 mg/m³	TWA: 200 ppm TWA: 490 mg/m³ S* Ceiling: 400 ppm Ceiling: 980 mg/m³	TWA: 200 ppm STEL: 400 ppm Skin	STEL: 400 ppm STEL: 983 mg/m³ TWA: 200 ppm TWA: 492 mg/m³		
POLY(OXY-1,2-ETHANEDIYL), A-HYDRO-O-HYDROXY- 25322-68-3	TWA: 1000 mg/m³					
Glutaraldehyde 111-30-8	TWA: 0.05 ppm TWA: 0.21 mg/m³	STEL: 0.2 ppm STEL: 0.8 mg/m³	STEL: 0.05 ppm STEL: 0.2 mg/m³			
METHANOL 67-56-1	TWA: 200 ppm TWA: 270 mg/m³	TWA: 200 ppm TWA: 260 mg/m³ S* Ceiling: 400 ppm Ceiling: 520 mg/m³	TWA: 200 ppm TWA: 260 mg/m³ STEL: 600 ppm STEL: 780 mg/m³ Skin	TWA: 200 ppm TWA: 260 mg/m³ STEL: 250 ppm STEL: 328 mg/m³ TWA: 262 mg/m³ Skin	S* TWA: 200 ppm TWA: 260 mg/m³	Skin TWA: 133 mg/m³ TWA: 100 ppm
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
1,4-DIOXANE 123-91-1	TWA: 20 ppm TWA: 73 mg/m³	TWA: 20 ppm TWA: 73 mg/m³ S* Ceiling: 40 ppm Ceiling: 146 mg/m³	TWA: 20 ppm TWA: 73 mg/m³ STEL: 60 ppm STEL: 219 mg/m³ Skin	TWA: 20 ppm TWA: 72 mg/m³	TWA: 73 mg/m³ TWA: 20 ppm	TWA: 20 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	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

	mg/m³					
DIPROPYLENE GLYCOL 25265-71-8					STEL: 280 mg/m³ TWA: 140 mg/m³	
2,6-OCTADIENAL, 3,7-DIMETHYL- 5392-40-5			S* TWA: 5 ppm			
ISOPROPYL ALCOHOL 67-63-0	TWA: 100 ppm TWA: 245 mg/m³ STEL: 150 ppm STEL: 306.25 mg/m³	STEL: 400 ppm TWA: 200 ppm	STEL: 400 ppm STEL: 1000 mg/m³ TWA: 200 ppm TWA: 500 mg/m³	LLV: 150 ppm LLV: 350 mg/m³ STV: 250 ppm STV: 600 mg/m³	STEL: 400 ppm STEL: 1000 mg/m³ TWA: 200 ppm TWA: 500 mg/m³	STEL: 500 ppm STEL: 1250 mg/m³ TWA: 400 ppm TWA: 999 mg/m³
POLY(OXY-1,2-ETHANEDIYL), A-HYDRO-O-HYDROXY- 25322-68-3					TWA: 1000 mg/m³	
Glutaraldehyde 111-30-8	Ceiling: 0.2 ppm Ceiling: 0.8 mg/m³ Ceiling: 0.25 mg/m³	Ceiling: 0.05 ppm	STEL: 0.05 ppm STEL: 0.2 mg/m³	CLV: 0.1 ppm CLV: 0.4 mg/m³	STEL: 0.1 ppm STEL: 0.42 mg/m³ TWA: 0.05 ppm TWA: 0.21 mg/m³	STEL: 0.05 ppm STEL: 0.2 mg/m³ TWA: 0.05 ppm TWA: 0.2 mg/m³
METHANOL 67-56-1	TWA: 100 ppm TWA: 130 mg/m³ Skin STEL: 150 ppm STEL: 162.5 mg/m³	STEL: 250 ppm TWA: 200 ppm TWA: 260 mg/m³	S* TWA: 200 ppm TWA: 266 mg/m³	LLV: 200 ppm LLV: 250 mg/m³ S* STV: 250 ppm STV: 350 mg/m³	Skin STEL: 800 ppm STEL: 1040 mg/m³ TWA: 200 ppm TWA: 260 mg/m³	STEL: 250 ppm STEL: 333 mg/m³ TWA: 200 ppm TWA: 266 mg/m³ Skin
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
1,4-DIOXANE 123-91-1	TWA: 5 ppm TWA: 18 mg/m³ Skin STEL: 10 ppm STEL: 36 mg/m³	TWA: 20 ppm TWA: 73 mg/m³	TWA: 20 ppm TWA: 73 mg/m³	LLV: 10 ppm LLV: 35 mg/m³ S* STV: 25 ppm STV: 90 mg/m³	Skin STEL: 40 ppm STEL: 144 mg/m³ TWA: 20 ppm TWA: 72 mg/m³	STEL: 60 ppm STEL: 219 mg/m³ TWA: 20 ppm TWA: 73 mg/m³ Skin

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 Tightly fitting safety goggles.

Hand Protection Solvent-resistant gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection Long sleeved clothing. Rubber or plastic apron.

Respiratory protection Respirator with filter for organic vapor. If these are not sufficient to maintain concentrations of particulates and solvent vapor below the OEL, suitable respiratory protection must be worn.

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	blue green
Odor	Lemon

Property	**Values**	**Remarks • Methods**
pH	7	
Boiling point/boiling range	100 °C / 212 °F	
Flash Point	51 °C / 124 °F	
Explosion Limits		
upper	no data available	
lower	no data available	
Vapor pressure	no data available	
Vapor density	Not Applicable	
Relative density	1	
Water solubility	Not Applicable	
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	1.9 g/L
Bulk Density	Not Applicable
Melting/freezing point	

10. Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under recommended storage conditions. Risk of ignition.

10.3 Possibility of hazardous reactions

Hazardous Polymerization
No information available.

10.4 Conditions to Avoid

Direct sources of heat.

10.5 Incompatible Materials

Strong oxidizing agents.

10.6 Hazardous Decomposition Products

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke

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
Ethanol			124.7 mg/L (Rat) 4 h
DIPROPYLENE GLYCOL	13300 mg/kg (Rat)	20 mL/kg (Rabbit)	
2,6-OCTADIENAL, 3,7-DIMETHYL-	4950 mg/kg (Rat)	2250 mg/kg (Rabbit)	
ISOPROPYL ALCOHOL	1870 mg/kg (Rat)	4059 mg/kg (Rabbit)	72600 mg/m³ (Rat) 4 h
POLY(OXY-1,2-ETHANEDIYL), A-HYDRO-O-HYDROXY-		20 mL/kg (Rabbit)	
Glutaraldehyde	252 mg/kg (Rat)	560 µL/kg (Rabbit)	0.1 mg/L (Rat) 4 h
METHANOL	6200 mg/kg (Rat)		22500 ppm (Rat) 8 h
Ethylene oxide	72 mg/kg (Rat)		800 ppm (Rat) 4 h
1,4-DIOXANE	5170 mg/kg (Rat)	7600 µL/kg (Rabbit)	46 mg/L (Rat) 2 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
Ethylene oxide	Carc. 1B
1,4-DIOXANE	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
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		
2,6-OCTADIENAL, 3,7-DIMETHYL-	EC50: 72 h Desmodesmus subspicatus 16 mg/L EC50: 96 h Desmodesmus subspicatus 19 mg/L		EC50: 48 h Daphnia magna 7 mg/L		
ISOPROPYL ALCOHOL	EC50: 96 h Desmodesmus subspicatus 1000 mg/L EC50: 72 h Desmodesmus subspicatus 1000 mg/L	LC50: 96 h Pimephales promelas 9640 mg/L flow-through LC50: 96 h Pimephales promelas 11130 mg/L static LC50: 96 h Lepomis macrochirus 1400000 µg/L	EC50: 48 h Daphnia magna 13299 mg/L		
Glutaraldehyde	EC50: 96 h Desmodesmus subspicatus 0.84 mg/L EC50: 72 h Desmodesmus subspicatus 0.61 mg/L	LC50: 96 h Lepomis macrochirus 7.8 - 22 mg/L static LC50: 96 h Oncorhynchus mykiss 2.6 - 4.8 mg/L flow-through LC50: 96 h Oncorhynchus mykiss 7.8 - 13 mg/L static LC50: 96 h Pimephales promelas 5.4 mg/L static	EC50: 48 h Daphnia magna 14 mg/L EC50: 48 h Daphnia magna 0.56 - 1.0 mg/L Static		
METHANOL		LC50: 96 h Pimephales promelas 28200 mg/L flow-through LC50: 96 h Pimephales promelas 100 mg/L static LC50: 96 h Oncorhynchus mykiss 19500 - 20700 mg/L flow-through LC50: 96 h Oncorhynchus mykiss 18 - 20 mL/L static LC50: 96 h Lepomis macrochirus 13500 - 17600 mg/L flow-through			
Ethylene oxide		LC50: 96 h Pimephales promelas 73 - 96 mg/L	LC50: 48 h Daphnia magna 137 - 300 mg/L		
1,4-DIOXANE		LC50: 96 h Lepomis macrochirus 10000 mg/L static LC50: 96 h Lepomis macrochirus 10000 mg/L semi-static LC50: 96 h Pimephales promelas 9850 mg/L flow-through LC50: 96 h Pimephales promelas 10306 - 14742 mg/L static	EC50: 48 h water flea 163 mg/L Static		

		LC50: 96 h Pimephales promelas 9850 mg/L			

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

May cause long-term adverse effects in the aquatic environment.

Chemical Name	log Pow
Ethanol	-0.32
2,6-OCTADIENAL, 3,7-DIMETHYL-	2.76
ISOPROPYL ALCOHOL	0.05
Glutaraldehyde	0.22
METHANOL	-0.77
Ethylene oxide	-0.3
1,4-DIOXANE	-0.42

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available

12.6 Other adverse effects

Discharge into the environment must be avoided.

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. Do not burn, or use a cutting torch on, the empty drum.

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

14. Transport information

ADR Not regulated

IMDG

IATA

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	Complies
PICCS	Complies
ENCS	-
IECSC	Complies
AICS	Complies
KECL	-

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
R11 - Highly flammable
R43 - May cause sensitization by skin contact
R38 - Irritating to skin
R67 - Vapors may cause drowsiness and dizziness
R36 - Irritating to eyes
R34 - Causes burns
R50 - Very toxic to aquatic organisms
R45 - May cause cancer
R12 - Extremely flammable
R46 - May cause heritable genetic damage
R 6 - Explosive with or without contact with air
R23 - Toxic by inhalation
R10 - Flammable
R42/43 - May cause sensitization by inhalation and skin contact
R23/25 - Toxic by inhalation and if swallowed
R39/23/24/25 - Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed
R36/37/38 - Irritating to eyes, respiratory system and skin

Full text of H-Statements referred to under section 3
H301 - Toxic if swallowed
H331 - Toxic if inhaled
H314 - Causes severe skin burns and eye damage
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H317 - May cause an allergic skin reaction
H400 - Very toxic to aquatic life
H319 - Causes serious eye irritation
H351 - Suspected of causing cancer if inhaled
H335 - May cause respiratory irritation
H225 - Highly flammable liquid and vapor
H315 - Causes skin irritation

H311 - Toxic in contact with skin
H370 - Causes damage to organs (a,b,c) if inhaled
H336 - May cause drowsiness or dizziness
H340 - May cause genetic defects if inhaled
H350 - May cause cancer if swallowed
H220 - Extremely flammable gas
EUH066 - Repeated exposure may cause skin dryness or cracking
EUH019 - May form explosive peroxides

Revision Date 25-Nov-2014

Revision Note 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