

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012. Date of issue: 07/10/2014 Revision date: 07/12/18 Version: 1.0

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

1.1. Product identifier

Product name : "VP Cooling System Treatment

Product code : |112

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

Use of the substance/mixture : Cooling system treatment.

1.3. Details of the supplier of the safety data sheet

Factory Motor parts

1380 Corporate Center Curve, #200

Eagan, MN 55121 866-387-3343

1.4. Emergency telephone number

Emergency number: Infotrac

1-800-535-5053

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Eye irritation 2A

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US) : Varning

Hazard statements (GHS-US) : Causes serious eye irritation.

Precautionary statements (GHS-US) : Wash hands thoroughly after handling. Wear eye protection/face protection. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Sodium silicate	(CAS No) 1344-09-8		Acute Tox. 4 (Oral) Skin Irrit. 2 Eye Dam. 1 STOT SE 3
Methanol	(CAS No) 67-56-1		Flam. Liq. 2 Acute Tox. 3 (Oral, Dermal, Inhalation) Eye Irrit. 2B STOT SE 1

^{*} The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.



SECTION 4: First aid measures

Safety Data Sheet irst aid measures
according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.
First aid measures after inhalation : f inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position : finhaled and if breathing Cot medical advice/attention if you feel unwell.

First-aid measures after skin contact : f irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists.

First-aid measures after eye contact : n case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to

do, remove contact lenses, if worn. If irritation persists, get medical attention.

: f swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give First-aid measures after ingestion

anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the

skin.

Symptoms/injuries after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and

tear production, with marked redness and swelling of the conjunctiva.

Symptoms/injuries after ingestion : May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures

Extinguishing media 5.1.

Suitable extinguishing media : Freat for surrounding material.

Unsuitable extinguishing media : None known.

Special hazards arising from the substance or mixture

Fire hazard : ^oroducts of combustion may include, and are not limited to: oxides of carbon.

5.3. Advice for firefighters

Protection during firefighting : (eep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory

protection (SCBA).

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

: Jse personal protection recommended in Section 8. Isolate the hazard area and deny entry to General measures

innecessary and unprotected personnel.

Methods and material for containment and cleaning up

: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable For containment

container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal

Protective Equipment (PPE).

: 3coop up material and place in a disposal container. Provide ventilation. Methods for cleaning up

Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Do not swallow. Avoid breathing gas/fumes/vapor/spray.

landle and open container with care. When using do not eat, drink or smoke.

Hygiene measures : .aunder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

Conditions for safe storage, including any incompatibilities

Storage conditions : (eep out of the reach of children. Keep container tightly closed. Store in a well-ventilated place.

Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters Safety Data Sheet

a Sodium silicate (1344-09-8) ation Standard (CFR29 1910.1200) HazCom 2012.			
	USA ACGIH	ACGIH TWA	Not applicable.
	USA OSHA	OSHA PEL (TWA)	Not applicable.

Methanol (67-56-1)		
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	250 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	260 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm

8.2. Exposure controls

Appropriate engineering controls : Jse ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below

ecommended exposure limits.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Vear suitable gloves.

Eye protection : Vear approved eye protection (properly fitted dust- or splash-proof chemical safety goggles) and

face protection (face shield).

Skin and body protection : Vear suitable protective clothing.

Respiratory protection : n case of insufficient ventilation, wear suitable respiratory equipment. Environmental exposure controls : //aintain levels below Community environmental protection thresholds.

: No data available.

Other information : Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully

before eating or smoking. Handle according to established industrial hygiene and safety

practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: .iquid.Appearance: Dlear.Color: Dolorless.Odor: Ddorless.

Odor threshold : No data available.

pH : 3.0 - 9.5

Relative evaporation rate (butylacetate=1) : No data available. Melting point : No data available. Freezing point : No data available. : No data available. Boiling point : No data available. Flash point : No data available. Self ignition temperature Decomposition temperature : No data available. Flammability (solid, gas) : Not flammable. Vapor pressure : No data available. Relative vapor density at 20 °C : No data available. Relative density : 1.095 - 1.131 Solubility : No data available. Log Pow : No data available. : No data available. Log Kow : No data available. Viscosity, kinematic Viscosity, dynamic : No data available. : No data available. Explosive properties Oxidising properties : No data available.

Explosive limits

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Heat. Incompatible materials.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

1112	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	No data available.

Sodium silicate (1344-09-8)	
LD50 oral rat	1153 mg/kg
LD50 dermal rabbit	> 4640 mg/kg

Methanol (67-56-1)		
LD50 oral rat	5628 mg/kg	
LD50 dermal rabbit	15800 mg/kg	
LC50 inhalation rat	83.2 mg/l/4h	

Skin corrosion/irritation : Based on available data, the classification criteria are not met.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Based on available data, the classification criteria are not met.

Germ cell mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Reproductive toxicity : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure) : Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure) : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

Symptoms/injuries after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and

tear production, with marked redness and swelling of the conjunctiva.

Symptoms/injuries after ingestion : May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

SECTION 12: Ecological information

12.1. Toxicity

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

12.2. Persistence and degradability

1112	
Persistence and degradability	Not established.

Safety Data Sheet

Bioaccumulative potentialunication Standard (CFR29 Notestablished on 2012

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal egulations.

SECTION 14: Transport information

In accordance with DOT

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Additional information

Other information : No supplementary information available.

Special transport precautions : Do not handle until all safety precautions have been read and understood.

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

Phosphonic acid, methyl-, monomethyl ester, monosodium salt	CAS No 73750-69-3
Phosphonic acid, methyl-, mono[3-(trihydroxysilyl)propyl] ester, monosodium salt	CAS No 84962-98-1

Methanol (67-56-1) Listed on SARA Section 313 (Specific toxic chemical listings) SARA Section 313 - Emission Reporting 1.0 %

15.2. US State regulations

1112	
State or local regulations	This product contains a chemical known to the State of California to cause birth defects or
	other reproductive harm.

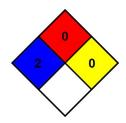
SECTION 16: Other information

Indication of changes : None.

Date of issue : 17/10/2014

Other information : None.

Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.



This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product



according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012. Date of issue: 07/31/2014

07/31/2014 Version: 1.0

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

1.1 Product identifier

Product name & code : VP Cooling System Cleaner

Product code: 1212

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

Use of the substance/mixture : Cooling System Cleaner.

Details of the supplier of the safety data sheet

Factory Motor parts 1380 Corporate Center Curve, #200 Eagan, MN 55121 866-387-3343

Emergency telephone number

Emergency number : 800) 373-6729

CHEMTREC (800) 424-9300

CHEMTREC International +1 (703) 527-3887 24 hr

SECTION 2: Hazards identification

Classification of the substance or mixture

GHS-US classification

Skin corrosion 1B Serious eye damage 1 Skin sensitization 1 Reproductive toxicity 2

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)





GHS05

: Danger

GHS07

GHS08

Signal word (GHS-US)

Hazard statements (GHS-US)

Precautionary statements (GHS-US)

Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child.

Revision date:

: Do not breathe gas/mist/vapors/spray. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. If exposed or concerned: Get medical advice/attention. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center/doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a poison center/doctor. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards 2.3.

No additional information available

5-percent of the nuxture consists of ingredient(s) of unknown acute toxicity.

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

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3.2. Mixture Safety Data Sheet

Name: to the Hazard Communication Standard (CFR29	1910.120Product/identifier	%	GHS-US classification
Boric acid (HBO ₂), sodium salt, tetrahydrate	(CAS No) 10555-76-7	3 - 7	Eye Irrit. 2A Repr. 2
Sodium nitrite	(CAS No) 7632-00-0	1 - 5	Ox. Sol. 3 Acute Tox. 3 (Oral) Eye Irrit. 2A
Tetrasodium EDTA	(CAS No) 64-02-8	1 - 5	Acute Tox. 4 (Oral) Eye Dam. 1
D-gluco-Heptonic acid, monosodium salt, (2.xi.)-	(CAS No) 31138-65-5	0.5 - 1.5	Not classified
Sodium mercaptobenzothiazole	(CAS No) 2492-26-4	0.1 - 1	Skin Corr. 1C Skin Sens. 1 Met. Corr. 1
Tolyltriazole, sodium salt	(CAS No) 64665-57-2	0.1 - 1	Acute Tox. 4 (Oral) Skin Corr. 1B
Thioglycolic acid	(CAS No) 68-11-1	0.1 - 1	Acute Tox. 2 (Inhalation) Acute Tox. 3 (Oral, Dermal) Skin Corr. 1B
Phenolphthalein	(CAS No) 77-09-8	< 0.1 ¹	Muta. 2 Carc. 2 Repr. 2
1,4-Dioxane	(CAS No) 123-91-1	< 0.1	Flam. Liq. 2 Eye Irrit. 2A Carc. 2 STOT SE 3
Acetaldehyde	(CAS No) 75-07-0	< 0.1	Flam. Liq. 1 Eye Irrit. 2A Carc. 2 STOT SE 3
Benzyl chloride	(CAS No) 100-44-7	< 0.1	Acute Tox. 3 (Inhalation) Acute Tox. 4 (Oral) Skin Irrit. 2 Eye Dam. 1 Carc. 1B STOT SE 3 STOT RE 2
Ethylene oxide	(CAS No) 75-21-8	< 0.1	Flam. Gas 1 Liquefied gas Acute Tox. 3 (Inhalation) Skin Irrit. 2 Eye Irrit. 2A Muta. 1B Carc. 1B STOT SE 3

^{*} The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : f inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult,

jive oxygen. Get immediate medical advice/attention.

First-aid measures after skin contact : n case of contact, immediately flush skin with plenty of water. Remove contaminated clothing

and shoes. Wash clothing before reuse. Get immediate medical advice/attention.

First-aid measures after eye contact : n case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to

do, remove contact lenses, if worn. Get medical attention immediately.

First-aid measures after ingestion : f swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Rinse mouth. Get medical attention immediately.

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

Symptoms/injuries after inhalation : rritating to respiratory system.

Symptoms/injuries after skin contact : Causes severe skin burns. Redness. Pain. Blisters. May cause sensitisation by skin contact. Symptoms/injuries after eye contact : Causes serious eye damage. May cause serious chemical burns. Redness, pain, tearing.

Symptoms/injuries after ingestion : May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

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

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

¹ 2001I

SECTION 5: Firefighting measures

Safety Data Sheetnedia

ording to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Suitable extinguishing media : Freat for surrounding material.

Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : 'Products of combustion may include, and are not limited to: oxides of carbon.

5.3. Advice for firefighters

Protection during firefighting : (eep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory

protection (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Jse personal protection recommended in Section 8. Isolate the hazard area and deny entry to

innecessary and unprotected personnel. Avoid contact with skin and eyes.

6.2. Methods and material for containment and cleaning up

For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable

container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal

Protective Equipment (PPE).

Methods for cleaning up : 3coop up material and place in a disposal container. Provide ventilation.

6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Do not breathe gas/fumes/vapor/spray. Do not

swallow. Handle and open container with care. Provide adequate ventilation. Do not eat, drink or

smoke when using this product.

Hygiene measures : .aunder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : (eep out of the reach of children. Keep container tightly closed. Store locked up.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Boric acid (HBO ₂), sodium salt, tetrahydrate (10555-76-7)		
USA ACGIH	ACGIH TWA	Not applicable.
USA OSHA	OSHA PEL (TWA)	Not applicable.

Sodium nitrite (7632-00-0)		
USA ACGIH	ACGIH TWA	Not applicable.
USA OSHA	OSHA PEL (TWA)	Not applicable.

Tetrasodium EDTA (64-02-8)		
USA ACGIH	ACGIH TWA	Not applicable.
USA OSHA	OSHA PEL (TWA)	Not applicable.

D-gluco-Heptonic acid, monosodium salt, (2.xi.)- (31138-65-5)		
USA ACGIH	ACGIH TWA	Not applicable.
USA OSHA	OSHA PEL (TWA)	Not applicable.

Sodium mercaptobenzothiazole (2492-26-4)		
USA ACGIH	ACGIH TWA	Not applicable.

FV-Rociooling Systeme Treatment

Not applicable.

Tolyltriazole, sodium	salt (64665-57-2)	
USArAGGIH Hazard Communicatio ACGIHaFWAFR29 1910.1200) HazCom 2012. Not applicable.		
USA OSHA	OSHA PEL (TWA)	Not applicable.
Thioglycolic acid (68	-11-1)	
USA ACGIH	ACGIH TWA (ppm)	1 ppm
Phenolphthalein (77-	09-8)	
USA ACGIH	ACGIH TWA	Not applicable.
USA OSHA	OSHA PEL (TWA)	Not applicable.
1,4-Dioxane (123-91-	1)	
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	360 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm
Acetaldehyde (75-07-	-0)	
USA ACGIH	ACGIH Ceiling (ppm)	25 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	360 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm
Benzyl chloride (100-	44-7)	
USA ACGIH	ACGIH TWA (ppm)	1 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	1 ppm
Ethylene oxide (75-2	1-8)	
USA ACGIH	ACGIH TWA (ppm)	1 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	1 ppm
USA OSHA	OSHA PEL (STEL) (ppm)	5 ppm

Exposure controls

Skin and body protection

Respiratory protection

Appropriate engineering controls : Jse ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below

ecommended exposure limits.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Vear chemically resistant protective gloves. Eye protection

: Vear approved eye protection (properly fitted dust- or splash-proof chemical safety goggles) and

face protection (face shield).

: Wear suitable protective clothing, including appropriate boots, boot covers, overshoes, etc., as

may be appropriate.

: \ NIOSH approved respirator is recommended in poorly ventilated areas or when permissible

exposure limits may be exceeded. Respirator selection must be based on known or anticipated

exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls : Maintain levels below Community environmental protection thresholds.

: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully Other information

before eating or smoking. Handle according to established industrial hygiene and safety

practices.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state : _iquid.

Appearance : No data available.

Color : Purple. Odor : Jungent.

Relative evaporation rate (butylacetate=1) : No data available.
Safety Data Sheet

Standard (CFR29: No data available. 2012.

Freezing point : No data available. **Boiling point** : No data available. : No data available. Flash point : No data available. Self ignition temperature Decomposition temperature : No data available. Flammability (solid, gas) : Not flammable. Vapor pressure : No data available. Relative vapor density at 20 °C : No data available.

Relative density : 1.1 - 1.2

: No data available. Solubility Log Pow : No data available. : No data available. Log Kow : No data available. Viscosity, kinematic : No data available. Viscosity, dynamic : No data available. Explosive properties Oxidising properties : No data available. Explosive limits : No data available.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Heat. Incompatible materials.

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Vot classified

1212;		
LD50 oral rat	> 2000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat	> 20 mg/l/4h	
	·	

Sodium nitrite (7632-00-0)		
LD50 oral rat	180 mg/kg	
LC50 inhalation rat 5.5 mg/l/4h		

Tetrasodium EDTA (64-02-8)

LD50 oral rat 1658 mg/kg

Sodium mercaptobenzothiazole (2492-26-4)		
LD50 oral rat	2100 mg/kg	
LD50 dermal rabbit	> 7940 mg/kg	

D50 oral rata Sheet	735 mg/kg
D50 dermal rabbit Communication Standard (C	FR29 №2000:mg/kg:com 2012.
Thioglycolic acid (68-11-1)	
LD50 oral rat	73 mg/kg
LD50 dermal rabbit	848 mg/kg
LC50 inhalation rat	210 mg/m³/4h
Phenolphthalein (77-09-8)	
LD50 oral rat	>2000 mg/kg
1,4-Dioxane (123-91-1)	
LD50 oral rat	4200 mg/kg
LD50 dermal rabbit	7600 µl/kg
LC50 inhalation rat	48.5 mg/l/4h
Acetaldehyde (75-07-0)	
LD50 oral rat	1930 mg/kg
LC50 inhalation rat	13300 ppm/4h
Benzyl chloride (100-44-7)	240 mg/l/g
LD50 oral rat	340 mg/kg
LC50 inhalation rat	150 ppm/2h
Ethylene oxide (75-21-8)	
LD50 oral rat	72 mg/kg
LC50 inhalation rat	800 ppm/4h
kin corrosion/irritation	: Causes severe skin burns.
erious eye damage/irritation	: Causes serious eye damage.
espiratory or skin sensitisation	: Vay cause an allergic skin reaction.
erm cell mutagenicity	: 3ased on available data, the classification criteria are not met.
arcinogenicity	: 3ased on available data, the classification criteria are not met.
Phenolphthalein (77-09-8)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicity Program (NTP) Status	1 - Evidence of Carcinogenicity, 3 - Reasonably anticipated to be Human Carcinogen
1,4-Dioxane (123-91-1)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicity Program (NTP) Status	1 - Evidence of Carcinogenicity, 3 - Reasonably anticipated to be Human Carcinogen
Acetaldehyde (75-07-0)	
IARC group	1 - Carcinogenic to humans, 2B - Possibly carcinogenic to humans
National Toxicity Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen
Benzyl chloride (100-44-7)	2A Probably carcinogonic to humans
IARC group	2A - Probably carcinogenic to humans
Ethylene oxide (75-21-8)	
IARC group	1 - Carcinogenic to humans
National Toxicity Program (NTP) Status	1 - Evidence of Carcinogenicity, 2 - Known Human Carcinogens
	In OSHA Specifically Regulated Carcinogen list

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met. Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met. Aspiration hazard : Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation : Irritating to respiratory system.

Symptoms/injuries after skin contact : Causes severe skin burns. Redness. Pain. Blisters. May cause sensitisation by skin contact.

Symptoms/injuries after eye contact : Causes serious eye damage. May cause serious chemical burns. Redness, pain, tearing.

Symptoms linguise later ages and stem Treanay reconstromach distress, nausea or vomiting.

SECTION 12! Ecological information

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

12.1. Toxicity

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

12.2. Persistence and degradability

1212;

Persistence and degradability Not established.

12.3. Bioaccumulative potential

1212;

Bioaccumulative potential Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal egulations. Empty containers or liners may retain some product residues. This material and its

container must be disposed of in a safe way.

SECTION 14: Transport information

In accordance with DOT

14.1. UN number

UN-No. : JN1760

14.2. UN proper shipping name

Proper Shipping Name : Corrosive liquids, n.o.s. (Sodium mercaptobenzothiazole, Tolyltriazole, sodium salt, Thioglycolic

acid)

Department of Transportation Hazard Classes

Hazard labels

: }



Packing group : 1

14.3. Additional information

Other information : No supplementary information available.

Special transport precautions : Do not handle until all safety precautions have been read and understood.

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

Boric acid (HBO2), sodium salt, tetrahydrate CAS No 10555-76-7

Sodium nitrite (7632-00-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed	
on SARA Section 313 (Specific toxic chemical listings)	
EPA TSCA Regulatory Flag S - S - indicates a substance that is identified in a proposed or final Significant New Uses Ru	
SARA Section 313 - Emission Reporting	10%

D-gluco-reptonic acid, monasodium sait, (2.xi.)=(31138-65-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flagication Standard (CF 123T) indicates a substance that is the subject of a Section 4 test rule under TSCA.

Phenolphthalein (77-09-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed

on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting 0.1 %

1,4-Dioxane (123-91-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed

on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting 0.1 %

Acetaldehyde (75-07-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed

on SARA Section 313 (Specific toxic chemical listings)

EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

SARA Section 313 - Emission Reporting 0.1 %

Benzyl chloride (100-44-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed

on SARA Section 302 (Specific toxic chemical listings)

Listed on SARA Section 313 (Specific toxic chemical listings)

Elsted of SARA Section 313 (Specific toxic chemical listings)		
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.	
SARA Section 302 Threshold Planning Quantity (TPQ)	500	
SARA Section 313 - Emission Reporting	1.0 %	

Ethylene oxide (75-21-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed

on SARA Section 302 (Specific toxic chemical listings)

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 302 Threshold Planning Quantity (TPQ)	1000
SARA Section 313 - Emission Reporting	0.1 %

15.2. US State regulations

1212;	
State or local regulations	This product contains chemicals known to the State of California to cause cancer, birth
	defects or other reproductive harm.

SECTION 16: Other information

Indication of changes : None.

Date of issue : 17/31/2014

Other information : None.

IFPA health hazard: 3IFPA fire hazard: 1IFPA reactivity: 0

