

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: FVP Cooling System TreatmentProduct 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

<b>SECTION 2: Hazards identification</b>	
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)	: Narning
Hazard statements (GHS-US)	: Causes serious eye irritation.
Precautionary statements (GHS-US)	: Vash 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

J.Z. WIXLUI	3.2	-		Mi	xt	u
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Name	Product identifier	%	GHS-US classification
Sodium silicate	(CAS No) 1344-09-8	0.1 - 1	Acute Tox. 4 (Oral) Skin Irrit. 2 Eye Dam. 1 STOT SE 3
Methanol	(CAS No) 67-56-1	< 0.1	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.



# FVP Cooling System Treatment SECTION 4: First aid measures

SECTION 4: First aid measures	
Safety Data Sheatirst aid measures according to the Hazard Communication Standard (CFR2	
First-aid measures after inhalation	: f inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get 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.
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. Get medical advice/attention if you feel unwell.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/injuries after inhalation	: <i>I</i> ay cause respiratory irritation.
Symptoms/injuries after skin contact	: <i>A</i> ay 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	: <i>J</i> ay 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 possible).	of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	: Freat for surrounding material. : Jone known.
5.2. Special hazards arising from the sub	stance or mixture
Fire hazard	: <sup>o</sup> roducts 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 measur	es
6.1. Personal precautions, protective equ	ipment and emergency procedures
General measures	: Jse personal protection recommended in Section 8. Isolate the hazard area and deny entry to innecessary and unprotected personnel.
6.2. Methods and material for containme	nt 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	: Scoop up material and place in a disposal container. Provide ventilation.
6.3. Reference to other sections	
See section 8 for further information on protective	e clothing and equipment and section 13 for advice on waste disposal.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	

in instantions for sale name	
Precautions for safe handling	: Avoid contact with skin and eyes. Do not swallow. Avoid breathing gas/fumes/vapor/spray. Handle 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.
7.2. Conditions for safe storage, include	ling any incompatibilities
Storage conditions	: Geep out of the reach of children. Keep container tightly closed. Store in a well-ventilated place.
7.3. Specific end use(s)	
Natavailable	

Not available.

### SECTION 8: Exposure controls/personal protection

Safety Data Sheet			
0) HazCom 2012.			
Not applicable.			
Not applicable.			
Methanol (67-56-1)			
200 ppm			
250 ppm			
) 260 mg/m³			
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	: \void 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	: Maintain levels below Community environmental protection thresholds.
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 e	chemical properties
Physical state	: .iquid.
Appearance	: Clear.
Color	: Colorless.
Odor	: Ddorless.
Odor threshold	: vo data available.
pН	: }.0 - 9.5
Relative evaporation rate (butylacetate=1)	: vo data available.
Melting point	: vo data available.
Freezing point	: vo data available.
Boiling point	: vo data available.
Flash point	: vo data available.
Self ignition temperature	: vo data available.
Decomposition temperature	: vo data available.
Flammability (solid, gas)	: Vot flammable.
Vapor pressure	: Vo data available.
Relative vapor density at 20 °C	: Vo data available.
Relative density	: 1.095 - 1.131
Solubility	: vo data available.
Log Pow	: Vo data available.
Log Kow	: vo data available.
Viscosity, kinematic	: vo data available.
Viscosity, dynamic	: vo data available.
Explosive properties	: vo data available.
Oxidising properties	: Vo data available.
Explosive limits	: Vo data available.

ECTION 10: Stability and reactivity	
.1. Reactivity	
No dangerous reaction known under conditions o	f normal use.
.2. Chemical stability	
Stable under normal storage conditions.	
.3. Possibility of hazardous reactions	
No dangerous reaction known under conditions o	f normal use.
.4. Conditions to avoid	
Heat. Incompatible materials.	
None known.	
.6. Hazardous decomposition products	
May include, and are not limited to: oxides of cart	200
ECTION 11: Toxicological information	
.1. Information on toxicological effects	
Acute toxicity	: vot 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	e) : 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
Symptoms/injuries after eye contact	<ul> <li>Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.</li> </ul>
Symptoms/injuries after ingestion	: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
ECTION 12: Ecological information	
ECTION 12: Ecological information	
ECTION 12: Ecological information .1. Toxicity Ecology - general	: <i>A</i> ay cause long-term adverse effects in the aquatic environment.

1112	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

1 <b>11</b> 0000111g 0ystern	
Safety Data Sheet a Bioaccumulative potential unication Standard (C	CFR29 Notestablishedem 2012.
12.4. Mobility in soil No additional information available	
12.5. Other adverse effects	
Effect on ozone layer	: Vo additional information available
Effect on the global warming	: No known ecological damage caused by this product.
SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Waste disposal recommendations	: This material must be disposed of in accordance with all local, state, provincial, and federal egulations.
<b>SECTION 14: Transport information</b>	
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 45: Bossulatory information	

### **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 chemic	al 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 Date of issue Other information		: Vone. : )7/10/2014 : Vone.
IFPA health hazard	:	2
IFPA fire hazard	:	0
IFPA reactivity	:	0

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

State Confident Solution	FVP Cooling System Cleaner Safety Data Sheeton 2012. andard (CFR29 1910.1200) HazCom 2012. Date of issue: 07/31/2014 Revision date: 07/31/2014 Version: 1.0
	f the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name & code	: <sup>-</sup> VP Cooling System Cleaner <sup>2</sup> roduct code: 1212
1.2. Relevant identified us	es of the substance or mixture and uses advised against
Use of the substance/mixture	: Cooling System Cleaner.
1.3.Details of the supplierFactory Motor parts1380 Corporate Center Curve, #2Eagan, MN 55121866-387-3343	of the safety data sheet
1.4. Emergency telephone	number
Emergency number	: 800) 373-6729 CHEMTREC (800) 424-9300 CHEMTREC International +1 (703) 527-3887 24 hr
Skin corrosion 1B Serious eye damage 1 Skin sensitization 1 Reproductive toxicity 2	
2.2. Label elements	
HS-US labelling Hazard pictograms (GHS-US)	CHS05 GHS07 GHS08
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	<ul> <li>Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child.</li> </ul>
Precautionary statements (GHS-	US) : 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

### 2.3. Other hazards

No additional information available

Sanerg	5 percent of the nixture 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 app	icable					
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Name to the Hazard Communication Standard (CFR29	1910.120 Product identifier	%	GHS-US classification
Boric acid (HBO2), 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
Fetrasodium 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
Γolyltriazole, 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 <sup>1</sup>	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. <sup>1</sup>20011

<b>SECTION 4: First aid measures</b>	
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 effect	s, 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).

SECTION 5: Firefighting measures	reatment
Safety Data Sheetnedia	
according to the Hazard Communication Standard (CFF Suitable extinguishing media	: Freat for surrounding material.
Unsuitable extinguishing media	: Jone known.
5.2. Special hazards arising from the s	ubstance 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).
<b>SECTION 6: Accidental release measu</b>	ires
6.1. Personal precautions, protective e	quipment 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 containm	ent 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	: Scoop up material and place in a disposal container. Provide ventilation.
6.3. Reference to other sections	
See section 8 for further information on protect	ctive clothing and equipment and section 13 for advice on waste disposal.
<b>SECTION 7: Handling and storage</b>	
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, include	ling any incompatibilities
Storage conditions	: Geep out of the reach of children. Keep container tightly closed. Store locked up.
7.3. Specific end use(s)	

7.3. Specific end use(s) Not available.

### SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Boric acid (HBO₂), 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 ac	id, 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.	

F	VSRoGooling Sys	terme.Treatment	Not applicable.
			• • • • •

Tolyltriazole, sodium salt (64) USAACGIH Hazard Communicati	AGGIHaTWAFR29 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/m <sup>3</sup>	
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 (75-21-8)	•		
	ACGIH TWA (ppm)	1 ppm	
USA OSHA	OSHA PEL (TWA) (ppm)	1 ppm	
USA OSHA	OSHA PEL (STEL) (ppm)	5 ppm	
8.2. Exposure controls	1		
ppropriate engineering controls	: Jse ventilation adequate to kee ecommended exposure limits.	p exposures (airborne levels of dust, fume, vapor, etc.) below	
ersonal protective equipment	: Avoid all unnecessary exposure		
and protection	: Near chemically resistant prote	ctive gloves.	
ye protection	<ul> <li>Vear approved eye protection (properly fitted dust- or splash-proof chemical safety goggles) and face protection (face shield).</li> </ul>		
kin and body protection	<ul> <li>Near suitable protective clothing, including appropriate boots, boot covers, overshoes, etc., as may be appropriate.</li> </ul>		
espiratory protection	<ul> <li>A 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</li> </ul>		
nvironmental exposure controls		ty environmental protection thresholds.	
ther 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 physica	I and chemical properties
Physical s	state	: .iquid.
Appearan	се	: No data available.
Color		: <sup>o</sup> urple.
Odor		: <sup>o</sup> ungent.

## **For Pressooling System Treatment**

<b>j</b>	
Relative evaporation rate (butylacetate=1)	: lo data available.
Safety Data Sheet Meting point according to the Hazard Communication Standard (CFR2	: lo data available. 2012
Freezing point	: No data available.
Boiling point	: lo data available.
Flash point	: Vo data available.
Self ignition temperature	: lo data available.
Decomposition temperature	: No data available.
Flammability (solid, gas)	: Not flammable.
Vapor pressure	: No data available.
Relative vapor density at 20 °C	: lo data available.
Relative density	:  .1 - 1.2
Solubility	: lo data available.
Log Pow	: No data available.
Log Kow	: lo data available.
Viscosity, kinematic	: lo data available.
Viscosity, dynamic	: No data available.
Explosive properties	: No data available.
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.

Acute toxicity

### 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

: 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	492-26-4)	
LD50 oral rat	2100 mg/kg	
LD50 dermal rabbit	> 7940 mg/kg	

D50 oral rata Sheet	735 mg/kg
LD50 dermal rabbit Communication Standard (CF	=R29 ≥92000.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)	
Benzyl chloride (100-44-7) LD50 oral rat	340 mg/kg
LC50 inhalation rat	150 ppm/2h
Ethylene oxide (75-21-8)	
LD50 oral rat	72 mg/kg 800 ppm/4h
LC50 inhalation rat	800 ppm/4n
kin corrosion/irritation	: Causes severe skin burns.
erious eye damage/irritation	: Causes serious eye damage.
espiratory or skin sensitisation	: <i>I</i> lay 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)	1. Carainagania ta humana, 20. Dagaikhu garainagania ta humana
IARC group National Toxicity Program (NTP) Status	1 - Carcinogenic to humans, 2B - Possibly carcinogenic to humans
	3 - Reasonably anticipated to be Human Carcinogen
Benzyl chloride (100-44-7)	
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
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
	ure) : Based on available data, the classification criteria are not met.
	osure) : Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated expo	
Specific target organ toxicity (repeated expo Aspiration hazard	: Based on available data, the classification criteria are not met.

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

## Fynyloms and the spessystem Treathrassestomach distress, nausea or vomiting.

SECTON 72: ECOUGICal information	29 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	National
· · · · · · · · · · · · · · · · · · ·	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.
<b>SECTION 14: Transport information</b>	
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
Department of Transportation Hazard Classes Hazard labels	acid) : } : ·
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	

Boric acid (HBO2), sodium salt, tetrahydrate	CAS No 10555-76-7	
Sodium nitrite (7632-00-0)		
Listed on the United States TSCA (Toxic Sul on SARA Section 313 (Specific toxic chemi		
EPA TSCA Regulatory Flag	S - S - indicates a substance that is identified in a proposed or final Significant New Uses Ru	le.
SARA Section 313 - Emission Reporting	1.0 %	-

Listed on the United States TSCA (Toxic Substances Contr	ol Act) inventory
EPAnTSCA Regulatoryn Flagication Standard (CF 729719 indicat	esia 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 Contro on SARA Section 313 (Specific toxic chemical listings)	ol Act) inventory Listed
SARA Section 313 - Emission Reporting 0.1 %	
1,4-Dioxane (123-91-1)	
Listed on the United States TSCA (Toxic Substances Contro on SARA Section 313 (Specific toxic chemical listings)	ol Act) inventory Listed
SARA Section 313 - Emission Reporting 0.1 %	
Acetaldehyde (75-07-0)	
Listed on the United States TSCA (Toxic Substances Contro on SARA Section 313 (Specific toxic chemical listings)	ol Act) inventory Listed
EPA TSCA Regulatory Flag T - T - indicat	es 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 Contro on SARA Section 302 (Specific toxic chemical listings) 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 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 Contro 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

### 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		: )7/31/2014
Other information		: Jone.
IFPA health hazard	:	3
IFPA fire hazard	:	1
IFPA reactivity	:	0



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