

Material Safety Data Sheet

SAF Fixative



1. Product and company identification

Product name : SAF Fixative
Product code : R04561
Supplier : EMD Chemicals Inc.
480 S. Democrat Rd.
Gibbstown, NJ 08027
856-423-6300 Technical Service
Monday-Friday: 8:00 -5:00 PM
Synonym : None.
Material uses : Other non-specified industry: Analytical reagent.
Validation date : 1/27/2011.
In case of emergency : 800-424-9300 CHEMTREC (USA)
613-996-6666 CANUTEC (Canada)
24 Hours/Day: 7 Days/Week

2. Hazards identification

Emergency overview : WARNING!
CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER.
HARMFUL IF SWALLOWED.
CAUSES EYE AND SKIN IRRITATION.
CAUSES DAMAGE TO THE FOLLOWING ORGANS: MUCOUS MEMBRANES,
RESPIRATORY TRACT, SKIN, EYE, LENS OR CORNEA, TEETH.
MAY CAUSE RESPIRATORY TRACT IRRITATION.
WARNING: This product contains a chemical known to the State of California to cause cancer.
Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing.
Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Physical state : Liquid.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.

Inhalation : May cause respiratory irritation.

Ingestion : Toxic if swallowed.

Skin : Irritating to skin.

Eyes : Irritating to eyes.

Potential chronic health effects

Carcinogenicity : Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Target organs : Causes damage to the following organs: mucous membranes, upper respiratory tract, skin, eye, lens or cornea, teeth.

Medical conditions aggravated by over-exposure : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (section 11)

Continued on next page

3 . Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
Water	7732-18-5	95 - 98
Formaldehyde	50-00-0	1 - 5
Acetic Acid	64-19-7	1 - 5
Sodium Acetate, Anhydrous	127-09-3	1 - 5
Triton® X-100 Surfactant	9002-93-1	0 - 1

4 . First aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5 . Fire-fighting measures

- Flammability of the product** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 . Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate . Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

- Spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal . Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

7. Handling and storage

- Handling** : Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in original container, protected from direct sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

8. Exposure controls/personal protection

Ingredient	Exposure limits
Formaldehyde	<p>ACGIH TLV (United States, 1/2009). Skin sensitizer. C: 0.3 ppm C: 0.37 mg/m³</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 0.75 ppm 8 hour(s). STEL: 2 ppm 15 minute(s).</p> <p>OSHA PEL Z2 (United States, 11/2006). TWA: 0.75 ppm 8 hour(s). STEL: 2 ppm 15 minute(s).</p> <p>NIOSH REL (United States, 6/2008). TWA: 0.016 ppm 10 hour(s). CEIL: 0.1 ppm 15 minute(s).</p> <p>OSHA PEL (United States, 11/2006). TWA: 0.75 ppm 8 hour(s). STEL: 2 ppm 15 minute(s).</p>
Acetic Acid	<p>ACGIH TLV (United States, 1/2008). TWA: 10 ppm 8 hour(s). TWA: 25 mg/m³ 8 hour(s). STEL: 15 ppm 15 minute(s). STEL: 37 mg/m³ 15 minute(s).</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 10 ppm 8 hour(s). TWA: 25 mg/m³ 8 hour(s).</p> <p>NIOSH REL (United States, 6/2008). TWA: 10 ppm 10 hour(s). TWA: 25 mg/m³ 10 hour(s). STEL: 15 ppm 15 minute(s). STEL: 37 mg/m³ 15 minute(s).</p> <p>OSHA PEL (United States, 11/2006). TWA: 10 ppm 8 hour(s). TWA: 25 mg/m³ 8 hour(s).</p>

Consult local authorities for acceptable exposure limits.

- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Personal protection**
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. 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.

8 . Exposure controls/personal protection

- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: nitrile rubber
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: splash goggles
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Recommended: lab coat
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9 . Physical and chemical properties

- Physical state** : Liquid.
- Flash point** : [Product does not sustain combustion.]
- Color** : Clear. Colorless.
- Odor** : Not available.
- pH** : Not available.
- Boiling/condensation point** : Not available.
- Melting/freezing point** : Not available.
- Relative density** : Not available.
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Odor threshold** : Not available.
- Evaporation rate** : Not available.
- VOC** : 6 % (w/w)
- Solubility** : Soluble in the following materials: water

10 . Stability and reactivity

- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.
- Conditions to avoid** : No specific data.
- Materials to avoid** : Reactive or incompatible with the following materials: oxidizing materials, metals, acids and alkalis.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Conditions of reactivity** : Slightly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and oxidizing materials.

11 . Toxicological information

Acute toxicity

Product/ingredient name	Test Route	Species	Result
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11 . Toxicological information

Formaldehyde	LD50 Dermal	Rabbit	270 mg/kg
	LD50 Dermal	Rabbit	270 uL/kg
	LD50 Intravenous	Rat	87 mg/kg
	LD50 Oral	Rat	500 mg/kg
	LD50 Oral	Guinea pig	260 mg/kg
	LD50 Oral	Rat	100 mg/kg
	LD50 Oral	Mouse	42 mg/kg
	LD50	Rat	0.42 g/kg
	Subcutaneous		
	LD50	Rat	420 mg/kg
	Subcutaneous		
	LDLo Oral	Woman	108 mg/kg
	LDLo Oral	Woman	108 mg/kg
	TDLo Parenteral	Rat	10 mg/kg
	TDLo	Rat	40 mg/kg
	Subcutaneous		
	TDLo	Rat	10 mg/kg
	Subcutaneous		
	TDLo	Rat	3.76 mg/kg
	Subcutaneous		
	TDLo	Rat	2.5 mg/kg
	Subcutaneous		
	TDLo	Rat	1.25 mg/kg
	Subcutaneous		
	TDLo	Rat	1 mg/kg
	Subcutaneous		
	TDLo	Rat	0.83 mg/kg
	Subcutaneous		
	LC50 Inhalation	Rat	578 mg/m3
	Vapor		
LC50 Inhalation	Rat	815 ppm	
Gas.			
LC50 Inhalation	Rat	250 ppm	
Gas.			
LC50 Inhalation	Rat	250 ppm	
Gas.			
Acetic Acid	LD50 Dermal	Mammal	1060 mg/kg
	LD50 Dermal	Rabbit	1060 uL/kg
	LD50 Oral	Mammal	4960 mg/kg
	LD50 Oral	Rat	3310 mg/kg
	LDLo Oral	Rabbit	600 mg/kg
	LDLo Oral	Rabbit	600 mg/kg
	TDLo Dermal	Rat	0.25 mg/kg
	TDLo Implant	Rat	10 mg/kg
	TDLo Oral	Rat	0.48 mL/kg
	TDLo Parenteral	Rat	0.263 mL/kg
	TDLo Rectal	Rat	0.24 mL/kg
	TDLo Rectal	Rat	300 mg/kg
	TDLo Rectal	Rat	240 mg/kg
	TDLo Rectal	Rat	200 mg/kg
	LC50 Inhalation	Muskrat	5620 ppm
Vapor			
Sodium Acetate, Anhydrous	LD50 Oral	Mouse	6891 mg/kg
	LD50 Oral	Rat	3530 mg/kg

Carcinogenicity

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Formaldehyde	A2	1	-	-	Possible	+

Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.

Continued on next page

11 . Toxicological information

Mutagenicity

No known significant effects or critical hazards.

Teratogenicity

No known significant effects or critical hazards.

12 . Ecological information

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Formaldehyde	Acute EC50 14.6 mg/L	Daphnia	48 hours
	Acute EC50 14 mg/L	Daphnia	48 hours
	Acute EC50 12.98 mg/L	Daphnia - Water flea -	48 hours
	Fresh water	Ceriodaphnia dubia - Neonate - <24 hours	
	Acute EC50 5.8 mg/L	Daphnia	48 hours
	Acute EC50 14.6 ppm	Daphnia - Water flea -	48 hours
	Fresh water	Daphnia magna - <24 hours	
	Acute EC50 29000 ug/L	Daphnia - Water flea -	48 hours
	Fresh water	Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	
	Acute EC50 14000 ug/L	Daphnia - Water flea -	48 hours
	Fresh water	Daphnia magna	
	Acute EC50 5800 ug/L	Daphnia - Water flea -	48 hours
	Fresh water	Daphnia pulex - Neonate - < 24 hours	
	Acute LC50 1.79 mg/L	Fish	96 hours
	Acute LC50 1.51 mg/L	Fish	96 hours
	Acute LC50 1.41 mg/L	Fish	96 hours
	Acute LC50 2.24 ppm	Fish - Rainbow	96 hours
	Fresh water	trout,donaldson trout - Oncorhynchus mykiss	
	Acute LC50 1.79 ppm	Fish - Bluegill - Lepomis	96 hours
	Fresh water	macrochirus	
Acute LC50 1.51 ppm	Fish - Bluegill - Lepomis	96 hours	
Fresh water	macrochirus		
Acute LC50 1.41 ppm	Fish - Rainbow	96 hours	
Fresh water	trout,donaldson trout - Oncorhynchus mykiss		
Acute LC50 330000 to 1000000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon - LARVAE	48 hours	
Acute LC50 13520 ug/L Marine water	Fish - Striped bass - Morone saxatilis - Fingerling - 1 to 2 months - 5.7 to 6.8 cm - 1.8 to 3.5 g	96 hours	
Acute LC50 10840 ug/L Marine water	Fish - Striped bass - Morone saxatilis - Fingerling - 1 to 2 months - 5.7 to 6.8 cm - 1.8 to 3.5 g	96 hours	
Acute LC50 10480 ug/L Marine water	Fish - Striped bass - Morone saxatilis - Fingerling - 1 to 2 months - 5.7 to 6.8 cm - 1.8 to 3.5 g	96 hours	
Acute LC50 10000 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 5.3 to 7.2 cm - 3.5 to 3.9 g	96 hours	
Acute LC50 8700 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 5.3 to 7.2 cm - 3.5 to 3.9 g	96 hours	

12 . Ecological information

	Acute LC50 4960 ug/L Fresh water	Fish - Striped bass - Morone saxatilis - Fingerling - 1 to 2 months - 5.7 to 6.8 cm - 1.8 to 3.5 g	96 hours
	Acute LC50 1428 ul/L Marine water	Crustaceans - Brine shrimp - Artemia sp.	48 hours
	Acute LC50 1415 ul/L Marine water	Crustaceans - Brine shrimp - Artemia sp.	48 hours
	Acute LC50 1336 ul/L Marine water	Crustaceans - Brine shrimp - Artemia sp.	48 hours
	Acute LC50 1299 ul/L Marine water	Crustaceans - Brine shrimp - Artemia sp.	48 hours
	Acute LC50 1265 ul/L Marine water	Crustaceans - Brine shrimp - Artemia sp.	48 hours
	Acute LC50 1170 ul/L Marine water	Crustaceans - Brine shrimp - Artemia sp.	48 hours
Acetic Acid	Acute EC50 65 mg/L	Daphnia	48 hours
	Acute EC50 65000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate -	48 hours <24 hours
	Acute LC50 88 mg/L	Fish	96 hours
	Acute LC50 79 mg/L	Fish	96 hours
	Acute LC50 75 mg/L	Fish	96 hours
	Acute LC50 251000 ug/L Fresh water	Fish - Western mosquitofish - Gambusia affinis - Adult	96 hours
	Acute LC50 180000 ug/L Marine water	Crustaceans - Green or European shore crab - Carcinus maenas - Adult	48 hours
	Acute LC50 100000 to 330000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon - Adult	48 hours
	Acute LC50 88000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - 4 to 8 weeks - 1.1 to 3.1 cm	96 hours
	Acute LC50 79000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - 4 to 8 weeks - 1.1 to 3.1 cm	96 hours
	Acute LC50 75000 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 5.3 to 7.2 cm - 3.5 to 3.9 g	96 hours
	Acute LC50 132 ul/L Marine water	Crustaceans - Brine shrimp - Artemia sp.	48 hours
	Acute LC50 117.6 ul/L Marine water	Crustaceans - Brine shrimp - Artemia sp.	48 hours
	Acute LC50 85.8 ul/L Marine water	Crustaceans - Brine shrimp - Artemia sp.	48 hours
	Acute LC50 70 ul/L Marine water	Crustaceans - Brine shrimp - Artemia sp.	48 hours
	Acute LC50 52.2 ul/L Marine water	Crustaceans - Brine shrimp - Artemia sp.	48 hours
	Acute LC50 50.1 ul/L Marine water	Crustaceans - Brine shrimp - Artemia sp.	48 hours

Environmental effects : No known significant effects or critical hazards.

13 . Disposal considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

14 . Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	-	CHEMICALS, N.O.S.	-	-		-

PG* : Packing group

15 . Regulatory information

United States

- HCS Classification** : Toxic material
Irritating material
Carcinogen
Target organ effects
- U.S. Federal regulations** : **TSCA 8(a) IUR**: Partial exemption
United States inventory (TSCA 8b): All components are listed or exempted.
TSCA (Toxic Substance Control Act): This product is listed on the TSCA Inventory.
SARA 302/304/311/312 extremely hazardous substances: Formaldehyde
SARA 302/304 emergency planning and notification: Formaldehyde
SARA 302/304/311/312 hazardous chemicals: Formaldehyde; Acetic Acid ; Sodium Acetate, Anhydrous
SARA 311/312 MSDS distribution - chemical inventory - hazard identification:
Formaldehyde: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; Acetic Acid : Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; Sodium Acetate, Anhydrous : Immediate (acute) health hazard
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: ACETIC ACID; FORMALDEHYDE ...%
Clean Air Act (CAA) 112 accidental release prevention: No products were found.
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
Clean Air Act (CAA) 112 regulated toxic substances: FORMALDEHYDE ...%

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 313

	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
Form R - Reporting requirements	: Formaldehyde	50-00-0	1 - 5
Supplier notification	: Formaldehyde	50-00-0	1 - 5

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

Connecticut Carcinogen Reporting : None of the components are listed.

Connecticut Hazardous Material Survey : None of the components are listed.

Florida substances : None of the components are listed.

Illinois Chemical Safety Act : None of the components are listed.

15 . Regulatory information

- Illinois Toxic Substances Disclosure to Employee Act** : None of the components are listed.
- Louisiana Spill** : None of the components are listed.
- Louisiana Reporting** : None of the components are listed.
- Massachusetts Spill** : None of the components are listed.
- Massachusetts Substances** : The following components are listed: Formaldehyde; Acetic Acid
- Minnesota Hazardous Substances** : None of the components are listed.
- Michigan Critical Material** : None of the components are listed.
- New Jersey Toxic Catastrophe Prevention Act** : None of the components are listed.
- New Jersey Spill** : None of the components are listed.
- New Jersey Hazardous Substances** : The following components are listed: SAF Fixative
- New York Toxic Chemical Release Reporting** : None of the components are listed.
- New York Acutely Hazardous Substances** : The following components are listed: Formaldehyde; Acetic acid
- Pennsylvania RTK Hazardous Substances** : The following components are listed: Formaldehyde; Acetic Acid
- Rhode Island Hazardous Substances** : None of the components are listed.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

<u>Ingredient name</u>	<u>Cancer</u>	<u>Reproductive</u>	<u>No significant risk level</u>	<u>Maximum acceptable dosage level</u>
Formaldehyde	Yes.	No.	Yes.	No.

Canada

- WHMIS (Canada)** : Class D-2A: Material causing other toxic effects (Very toxic).
Class D-2B: Material causing other toxic effects (Toxic).
- Canadian lists** : **CEPA Toxic substances**: The following components are listed: Formaldehyde
Canadian ARET: None of the components are listed.
Canadian NPRI: The following components are listed: Formaldehyde
Alberta Designated Substances: None of the components are listed.
Ontario Designated Substances: None of the components are listed.
Quebec Designated Substances: None of the components are listed.
- CEPA DSL / CEPA NDSL** : All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

EU regulations

Hazard symbol or symbols :



- Risk phrases** : R21/22- Harmful in contact with skin and if swallowed.
- Safety phrases** : S36/37- Wear suitable protective clothing and gloves.

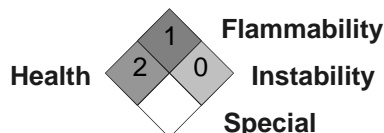
International regulations

15 . Regulatory information

International lists : **Australia inventory (AICS)**: All components are listed or exempted.
China inventory (IECSC): Not determined.
Japan inventory: Not determined.
Korea inventory: All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines inventory (PICCS): All components are listed or exempted.

16 . Other information

National Fire Protection Association (U.S.A.) :



Notice to reader

The statements contained herein are based upon technical data that EMD Chemicals Inc. believes to be reliable, are offered for information purposes only and as a guide to the appropriate precautionary and emergency handling of the material by a properly trained person having the necessary technical skills. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use, storage and disposal of these materials and the safety and health of employees and customers and the protection of the environment. EMD CHEMICALS INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, WITH RESPECT TO THE INFORMATION HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS.