

FVP RADIATOR STOP LEAK 15 FL.OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 09/25/2014

Version:

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

1.1. Product identifier

Product form : Mixture
Trade name : FVP RADIATOR STOP LEAK 15 FL.OZ.
Product code : FVPRADSEAL-15

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

Use of the substance/mixture : Radiator Sealer

1.3. Details of the supplier of the safety data sheet

Factory Motor Parts
1380 Corporate center Curve Ste. 200
Eagan, MN 55121
(866) 387-3343

1.4. Emergency telephone number

Emergency number : CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Not classified

2.2. Label elements

GHS-US labeling

Signal word (GHS-US) : Warning
Precautionary statements (GHS-US) : P264 - Wash affected areas thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.

2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
DI - Water	(CAS No) 7789-20-0	85 - 95	Not classified
Wood flour Mesh	(CAS No) Mixture	1 - 5	Not classified
Bentonite, Conc Quartz (Respirabel Dust) >=0,1%	(CAS No) 1302-78-9	1 - 5	Not classified
Aristonate	(CAS No) Mixture	1 - 5	Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332
Diatomaceous Earth, Uncalcined	(CAS No) 61790-53-2	1 - 5	Not classified
methenamine 3-chloroallylochloride	(CAS No) 4080-31-3	< 1	Acute Tox. 4 (Oral), H302
Sodium Bicarbonate	(CAS No) 144-55-8	<= 0.0858	Not classified
Potassium Hydroxide, 45%=<Conc<50%, Aqueous Solutions	(CAS No) 1310-58-3	< 1	Acute Tox. 3 (Oral), H301 Skin Corr. 1A, H314
hexamethylenetetramine	(CAS No) 100-97-0	<= 0.011	Flam. Sol. 2, H228 Skin Sens. 1, H317
dichloromethane	(CAS No) 75-09-2	<= 0.00066	Carc. 2, H351

FVP RADIATOR STOP LEAK 15 FL.OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%	Classification (GHS-US)
1,3-dichloropropene, mixed isomers	(CAS No) 542-75-6	<= 0.00055	Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

- Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.
- Symptoms/injuries after inhalation : May cause respiratory irritation.
- Symptoms/injuries after skin contact : May cause slight irritation.
- Symptoms/injuries after eye contact : May cause slight eye irritation.
- Symptoms/injuries after ingestion : May be harmful if swallowed and enters airways.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Remove ignition sources.

6.1.1. For non-emergency personnel

- Protective equipment : Gloves. Safety glasses.
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Dam up the liquid spill. Plug the leak, cut off the supply. Contain released substance, pump into suitable containers.
- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

FVP RADIATOR STOP LEAK 15 FL.OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations.
- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

Follow Label Directions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

dichloromethane (75-09-2)		
USA ACGIH	ACGIH TWA (ppm)	50 ppm
USA ACGIH	ACGIH STEL (ppm)	50 ppm
1,3-dichloropropene, mixed isomers (542-75-6)		
USA ACGIH	ACGIH TWA (ppm)	1 ppm
USA ACGIH	ACGIH STEL (ppm)	1 ppm
Potassium Hydroxide, 45%=<Conc<50%, Aqueous Solutions (1310-58-3)		
USA ACGIH	ACGIH Ceiling (mg/m³)	2 mg/m³
Wood flour Mesh (Mixture)		
USA ACGIH	ACGIH TWA (mg/m³)	5 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³

8.2. Exposure controls

- Appropriate engineering controls : Local exhaust ventilation, vent hoods.
- Personal protective equipment : Avoid all unnecessary exposure. Gloves. Safety glasses.



- Hand protection : Wear protective gloves.
- Eye protection : Chemical goggles or safety glasses.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : Wear appropriate mask.
- Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Liquid.
- Color : Brown.
- Odor : Mild.
- Odor threshold : No data available
- pH : No data available
- Relative evaporation rate (butyl acetate=1) : No data available
- Melting point : No data available
- Freezing point : No data available

FVP RADIATOR STOP LEAK 15 FL.OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Boiling point	: > 100 °C
Flash point	: > 100 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.02
Solubility	: Soluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content : 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Toxic fume. . Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

methenamine 3-chloroallylochloride (4080-31-3)	
LD50 oral rat	500 mg/kg (Rat)
Sodium Bicarbonate (144-55-8)	
LD50 oral rat	> 4000 mg/kg (Rat; FIFRA (40 CFR); Experimental value)
hexamethylenetetramine (100-97-0)	
LD50 oral rat	> 5000 mg/kg (Rat)
dichloromethane (75-09-2)	
LD50 oral rat	> 2000 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Literature study)
1,3-dichloropropene, mixed isomers (542-75-6)	
LD50 oral rat	127 mg/kg (Rat)
LD50 dermal rat	775 mg/kg (Rat)
LD50 dermal rabbit	333 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	3 mg/l/4h (Rat)
Potassium Hydroxide, 45%=<Conc<50%, Aqueous Solutions (1310-58-3)	
LD50 oral rat	273 mg/kg (Rat)

FVP RADIATOR STOP LEAK 15 FL.OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Aristonate (Mixture)	
LD50 oral rat	5000 mg/kg
LD50 dermal rat	2000 mg/kg
LD50 dermal rabbit	10200 mg/kg
LC50 inhalation rat (mg/l)	2.18 mg/l

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

dichloromethane (75-09-2)	
IARC group	2B

1,3-dichloropropene, mixed isomers (542-75-6)	
IARC group	2B

Diatomaceous Earth, Uncalcined (61790-53-2)	
IARC group	3

Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: 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 slight irritation.
Symptoms/injuries after eye contact	: May cause slight eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Sodium Bicarbonate (144-55-8)	
LC50 fish 1	7550 mg/l (96 h; Gambusia affinis)
EC50 Daphnia 1	2350 mg/l (48 h; Daphnia magna)
LC50 fish 2	8600 mg/l (96 h; Lepomis macrochirus)
Threshold limit algae 1	650 mg/l (120 h; Algae)

hexamethylenetetramine (100-97-0)	
LC50 fish 1	49800 mg/l (96 h; Pimephales promelas; Measured concentration)
EC50 Daphnia 1	36000 mg/l (48 h; Daphnia magna)
EC50 other aquatic organisms 1	3 g/l (336 h; Selenastrum capricornutum; Growth rate)
LC50 fish 2	49000 mg/l (96 h; Cyprinodon variegatus; Nominal concentration)
EC50 Daphnia 2	92.500 mg/l (96 h; Crustacea)
Threshold limit algae 1	1500 mg/l (336 h; Selenastrum capricornutum)

dichloromethane (75-09-2)	
LC50 fish 1	193 mg/l (96 h; Pimephales promelas; Flow-through system)
EC50 Daphnia 1	168.2 mg/l (48 h; Daphnia magna)
LC50 fish 2	220 mg/l (96 h; Lepomis macrochirus; Flow-through system)
Threshold limit algae 1	1450 mg/l (192 h; Scenedesmus quadricauda; Cell numbers)
Threshold limit algae 2	550 mg/l (192 h; Microcystis aeruginosa)

1,3-dichloropropene, mixed isomers (542-75-6)	
LC50 fish 1	4.1 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	3.1 mg/l (48 h; Daphnia magna; Static system)
LC50 fish 2	1.97 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	0.09 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	1.04 - 4.9,96 h; Selenastrum capricornutum; Cell numbers

FVP RADIATOR STOP LEAK 15 FL.OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Potassium Hydroxide, 45%=<Conc<50%, Aqueous Solutions (1310-58-3)	
LC50 fish 1	28.6 mg/l (24 h; Pisces; Pure substance)
LC50 other aquatic organisms 1	100 - 1000 mg/l (96 h)
LC50 fish 2	80 mg/l (96 h; Gambusia affinis; Pure substance)
Threshold limit other aquatic organisms 1	100 - 1000,96 h

12.2. Persistence and degradability

FVP RADIATOR STOP LEAK 15 FL.OZ.	
Persistence and degradability	Not established.

methenamine 3-chloroallylochloride (4080-31-3)	
Persistence and degradability	Forming sediments in water. Adsorbs into the soil.

Sodium Bicarbonate (144-55-8)	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the substance available.
ThOD	Not applicable (inorganic)

hexamethylenetetramine (100-97-0)	
Persistence and degradability	Hydrolysis in water.
Biochemical oxygen demand (BOD)	0.026 g O ₂ /g substance
ThOD	1.37 g O ₂ /g substance (NH ₃)
BOD (% of ThOD)	0.01897 % ThOD

dichloromethane (75-09-2)	
Persistence and degradability	Not readily biodegradable in water. Biodegradable in the soil.

1,3-dichloropropene, mixed isomers (542-75-6)	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil. Photolysis in the air.

Potassium Hydroxide, 45%=<Conc<50%, Aqueous Solutions (1310-58-3)	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the components available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

Aristonate (Mixture)	
Persistence and degradability	Not established.

Bentonite, Conc Quartz (Respirabel Dust) >=0,1% (1302-78-9)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

Diatomaceous Earth, Uncalcined (61790-53-2)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

DI - Water (7789-20-0)	
Persistence and degradability	Not established.

Wood flour Mesh (Mixture)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

FVP RADIATOR STOP LEAK 15 FL.OZ.	
Bioaccumulative potential	Not established.

methenamine 3-chloroallylochloride (4080-31-3)	
BCF other aquatic organisms 1	3.2 (WO h; Estimated value)
Log Pow	-0.1
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

FVP RADIATOR STOP LEAK 15 FL.OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Sodium Bicarbonate (144-55-8)	
Log Pow	-4.01 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
hexamethylenetetramine (100-97-0)	
Log Pow	-4.15 - -2.13
Bioaccumulative potential	Bioaccumulation: not applicable.
dichloromethane (75-09-2)	
BCF fish 1	2 - 40 (Cyprinus carpio; Test duration: 6 weeks)
Log Pow	1.25 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
1,3-dichloropropene, mixed isomers (542-75-6)	
Log Pow	2 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Potassium Hydroxide, 45%=<Conc<50%, Aqueous Solutions (1310-58-3)	
Bioaccumulative potential	Not bioaccumulative.
Aristonate (Mixture)	
Bioaccumulative potential	Not established.
Bentonite, Conc Quartz (Respirabel Dust) >=0,1% (1302-78-9)	
Bioaccumulative potential	No bioaccumulation data available.
Diatomaceous Earth, Uncalcined (61790-53-2)	
Bioaccumulative potential	No bioaccumulation data available.
DI - Water (7789-20-0)	
Bioaccumulative potential	Not established.
Wood flour Mesh (Mixture)	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

dichloromethane (75-09-2)	
Surface tension	0.028 N/m (20 °C)
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
1,3-dichloropropene, mixed isomers (542-75-6)	
Surface tension	0.031 N/m (24 °C)
Ecology - soil	Toxic to flora. Not toxic to bees in normal conditions of use.

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. . Do not discharge into drains or the environment.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

US DOT (ground): Not Regulated, ICAO/IATA

(air): Not Regulated,

IMO/IMDG (water): Not Regulated,

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not Regulated

14.3. Additional information

Other information : No supplementary information available.

FVP RADIATOR STOP LEAK 15 FL.OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Overland transport

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

FVP RADIATOR STOP LEAK 15 FL.OZ.

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
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Potassium Hydroxide, 45%=<Conc<50%, Aqueous Solutions (1310-58-3)

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

Aristonate (Mixture)

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

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
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15.2. International regulations

CANADA

Potassium Hydroxide, 45%=<Conc<50%, Aqueous Solutions (1310-58-3)

Listed on the Canadian DSL (Domestic Substances List)

Aristonate (Mixture)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Potassium Hydroxide, 45%=<Conc<50%, Aqueous Solutions (1310-58-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Aristonate (Mixture)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Carc.Cat.2; R49

Full text of R-phrases: see section 16

15.2.2. National regulations

Potassium Hydroxide, 45%=<Conc<50%, Aqueous Solutions (1310-58-3)

Listed on AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Aristonate (Mixture)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on AICS (Australian Inventory of Chemical Substances)

15.3. US State regulations

No additional information available

SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16:

Acute Tox. 3 (Dermal)

Acute toxicity (dermal) Category 3

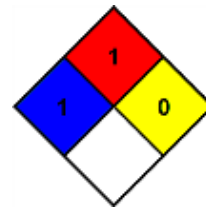
FVP RADIATOR STOP LEAK 15 FL.OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 2	Carcinogenicity Category 2
Flam. Liq. 3	Flammable liquids Category 3
Flam. Sol. 2	Flammable solids Category 2
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H228	Flammable solid
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

- NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
- NFPA fire hazard : 1 - Must be preheated before ignition can occur.
- NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

- Health : 1 Slight Hazard - Irritation or minor reversible injury possible
- Flammability : 1 Slight Hazard
- Physical : 0 Minimal Hazard
- Personal Protection : B

SDS US (GHS HazCom 2012) - TCC

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product

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