



JOHNSEN'S PREMIUM A/C FLUSH NON-FLAMMABLE 1 GALLON

Safety Data Sheet

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

Revision date: 12/29/2015

Version: 1.1

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

1.1. Product identifier

Product form : Mixture
Trade name : JOHNSEN'S PREMIUM A/C FLUSH NON-FLAMMABLE 1 GALLON
Product code : 6644

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

Use of the substance/mixture : A/C Flush

1.3. Details of the supplier of the safety data sheet

Technical Chemical Company
P.O. BOX 139
Cleburne, Texas 76033
T 817-645-6088

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

GHS-US classification

Eye Irrit. 2A H319
Carc. 2 H351
Repr. 1B H360
STOT SE 3 H335
STOT SE 3 H336
STOT RE 2 H373

Full text of H statements : see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS07

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H351 - Suspected of causing cancer
H360 - May damage fertility or the unborn child
H373 - May cause damage to organs (to liver, lungs, reproductive system and kidneys) through prolonged or repeated exposure

Precautionary statements (GHS-US) : P201 - Obtain special instructions
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe dust,fumes,gas,mist,vapor spray
P261 - Avoid breathing dust,fume,gas,mist,vapor spray
P264 - Wash affected areas thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves,protective clothing,eye protection,face protection
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313 - If exposed or concerned: Get medical advice/attention
P312 - Call a POISON CONTROL CENTER, doctor, if you feel unwell.
P314 - Get medical advice/attention if you feel unwell
P337+P313 - If eye irritation persists: Get medical advice/attention
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.

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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	%	GHS-US classification
n-Propyl Bromide	(CAS No) 106-94-5	> 90	Eye Irrit. 2A, H319 Repr. 1B, H360 STOT SE 3, H336 STOT SE 3, H335 STOT RE 2, H373
Proprietary Component	(CAS No) Confidential	< 5	Not classified
2-Propanol	(CAS No) 67-63-0	< 3	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
1,2-Epoxybutane, Inhibited	(CAS No) 106-88-7	< 2	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Dermal), H310 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351 STOT SE 3, H335

The exact percentage is a trade secret.

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. Suspected of causing cancer. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove the victim into fresh air. If experiencing respiratory symptoms: give oxygen, consult a physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Wash immediately with lots of water. 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 cautiously with water for several minutes. Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
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	: May damage fertility. May damage fertility or the unborn child. Causes damage to organs.
Symptoms/injuries after inhalation	: Narcosis. Nausea. Vomiting. Headache. EXPOSURE TO HIGH CONCENTRATIONS: May cause respiratory irritation. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Causes skin irritation. Itching. Red skin. Skin rash/inflammation.
Symptoms/injuries after eye contact	: Causes eye irritation. Causes serious eye irritation. Irritation of the eye tissue. Inflammation/damage of the eye tissue. Redness of the eye tissue.
Symptoms/injuries after ingestion	: Abdominal pain. Gastrointestinal complaints. Nausea.

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	: Dry chemical powder. 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

Reactivity	: On heating/burning: release of toxic and corrosive gases/vapours (bromine, hydrogen bromide, carbon monoxide - carbon dioxide).
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5.3. Advice for firefighters

- Firefighting instructions : Eliminate all ignition sources if safe to do so. 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 : Heat/fire exposure: compressed air/oxygen apparatus. 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. Avoid breathing dust,fume,gas,mist,vapor spray.
- 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.

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. Obtain special instructions . Do not handle until all safety precautions have been read and understood. Avoid breathing dust,fume,gas,mist,vapor spray. Use only outdoors or in a well-ventilated area.
- Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after handling. Separate working clothes from town clothes. Launder separately. Remove contaminated clothes. Always wash hands after handling the 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 : Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.
- Storage conditions : Store in a dry place. Store in original container. Keep only in the original container in a cool, well ventilated place away from : Keep container tightly closed.
- Incompatible products : Oxidizing agent. Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.
- Prohibitions on mixed storage : water/moisture.
- Storage area : Store in a dry area.

7.3. Specific end use(s)

- Follow Label Directions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

JOHNSEN'S PREMIUM A/C FLUSH NON-FLAMMABLE 1 GALLON		
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm Isopropyl Alcohol
USA OSHA	Remark (OSHA)	PEL Not Established - n Propyl Bromide, 1,2 Butylene Oxide, Proprietary Components
n-Propyl Bromide (106-94-5)		
USA ACGIH	ACGIH TWA (ppm)	0.1 ppm (1-Bromopropane; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)

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2-Propanol (67-63-0)		
USA ACGIH	ACGIH TWA (mg/m ³)	980 mg/m ³
USA ACGIH	ACGIH TWA (ppm)	400 ppm
USA ACGIH	ACGIH STEL (mg/m ³)	1225 mg/m ³
USA ACGIH	ACGIH STEL (ppm)	500 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	980 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm

8.2. Exposure controls

Appropriate engineering controls : Local exhaust ventilation, vent hoods . Ensure good ventilation of the work station.
Personal protective equipment : Gloves. Safety glasses. Avoid all unnecessary exposure.



Materials for protective clothing : viton.
Hand protection : Wear protective gloves.
Eye protection : Chemical goggles or safety glasses.
Skin and body protection : Protective clothing.
Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
Consumer exposure controls : Avoid contact during pregnancy/while nursing.
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 : Clear, colorless liquid.
Color : Colorless.
Odor : Sweet. Strong.
Odor threshold : No data available
pH : NA
Relative evaporation rate (butyl acetate=1) : 4
Melting point : No data available
Freezing point : No data available
Boiling point : 68 °C
Flash point : None
Auto-ignition temperature : 400 °C
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : 139 mm Hg @ 25 deg C
Relative vapor density at 20 °C : 4.3
Relative density : No data available
Specific gravity / density : 1.21
Solubility : Insoluble in water.
Water: Negligible
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
Explosion limits : No data available

9.2. Other information

VOC content : 100 %

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SECTION 10: Stability and reactivity

10.1. Reactivity

On heating/burning: release of toxic and corrosive gases/vapours (bromine, hydrogen bromide, carbon monoxide - carbon dioxide).

10.2. Chemical stability

Stable under normal conditions. Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Moisture. Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

metals. Oxidizing agent. 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

n-Propyl Bromide (106-94-5)	
LD50 oral rat	> 2000 mg/kg body weight
LD50 dermal rat	> 2000 mg/kg body weight
LD50 dermal rabbit	>= 10 ml/kg By bodyweight
LC50 inhalation rat (ppm)	14374 ppm/4h

1,2-Epoxybutane, Inhibited (106-88-7)	
LD50 oral rat	900 mg/kg (Rat; BASF test; Experimental value)
LD50 dermal rabbit	177 (Rabbit; Weight of evidence; 1416 mg/kg bodyweight; Rabbit; Calculated value)
LC50 inhalation rat (mg/l)	> 63 mg/l/4h (Rat; Experimental value)

2-Propanol (67-63-0)	
LD50 dermal rabbit	12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit)
LC50 inhalation rat (mg/l)	73 mg/l/4h (Rat)

Skin corrosion/irritation : Not classified
pH: NA

Serious eye damage/irritation : Causes serious eye irritation.
pH: NA

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

1,2-Epoxybutane, Inhibited (106-88-7)	
IARC group	2B

2-Propanol (67-63-0)	
IARC group	3

Reproductive toxicity : May damage fertility or the unborn child.

Specific target organ toxicity (single exposure) : May cause respiratory irritation. May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) : May cause damage to organs through prolonged or repeated exposure.

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 : Narcosis. Nausea. Vomiting. Headache. EXPOSURE TO HIGH CONCENTRATIONS: May cause respiratory irritation. May cause drowsiness or dizziness.

Symptoms/injuries after skin contact : Causes skin irritation. Itching. Red skin. Skin rash/inflammation.

Symptoms/injuries after eye contact : Causes eye irritation. Causes serious eye irritation. Irritation of the eye tissue. Inflammation/damage of the eye tissue. Redness of the eye tissue.

Symptoms/injuries after ingestion : Abdominal pain. Gastrointestinal complaints. Nausea.

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SECTION 12: Ecological information

12.1. Toxicity

n-Propyl Bromide (106-94-5)	
LC50 fish 1	67.3 mg/l (LC50; 96 h)
1,2-Epoxybutane, Inhibited (106-88-7)	
LC50 fish 2	> 100 mg/l (LC50; DIN 38412-15; 96 h; Leuciscus idus; Static system; Fresh water; Experimental value)
EC50 Daphnia 2	70 mg/l (EC50; EU Method C.2; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit algae 2	> 500 mg/l (EC50; DIN 38412-9; 72 h; Desmodesmus subspicatus; Static system; Fresh water; Experimental value)
2-Propanol (67-63-0)	
LC50 fish 2	9640 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value)
EC50 Daphnia 2	13299 mg/l (EC50; Other; 48 h; Daphnia magna)
Threshold limit algae 1	> 1000 mg/l (EC50; UBA; 72 h; Scenedesmus subspicatus)

12.2. Persistence and degradability

JOHNSEN'S PREMIUM A/C FLUSH NON-FLAMMABLE 1 GALLON	
Persistence and degradability	Not established.
n-Propyl Bromide (106-94-5)	
Persistence and degradability	Biodegradable in water.
1,2-Epoxybutane, Inhibited (106-88-7)	
Persistence and degradability	Readily biodegradable in water. Highly mobile in soil. Photolysis in the air.
Chemical oxygen demand (COD)	1.975 g O ₂ /g substance
ThOD	2.44 g O ₂ /g substance
BOD (% of ThOD)	0.06
2-Propanol (67-63-0)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	1.19 g O ₂ /g substance
Chemical oxygen demand (COD)	2.23 g O ₂ /g substance
ThOD	2.40 g O ₂ /g substance
Proprietary Component (Confidential)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

JOHNSEN'S PREMIUM A/C FLUSH NON-FLAMMABLE 1 GALLON	
Bioaccumulative potential	Not established.
n-Propyl Bromide (106-94-5)	
BCF other aquatic organisms 1	23 (BCF)
Log Pow	2.10
Bioaccumulative potential	Not bioaccumulative.
1,2-Epoxybutane, Inhibited (106-88-7)	
Log Pow	0.68 (Practical experience/observation; Other; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
2-Propanol (67-63-0)	
Log Pow	0.05 (Weight of evidence approach; Other; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Proprietary Component (Confidential)	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

n-Propyl Bromide (106-94-5)	
Surface tension	0.026 N/m (20 °C)
1,2-Epoxybutane, Inhibited (106-88-7)	
Surface tension	24 N/m (25 °C; 100 vol %)
Log Koc	Koc,SRC PCKOCWIN v1.66; 4,49; Calculated value; log Koc; SRC PCKOCWIN v1.66; 0,652; Calculated value

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2-Propanol (67-63-0)

Surface tension	0.021 N/m (25 °C)
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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 in a safe manner in accordance with local/national regulations. Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.

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 (Cleaning Solvent Mixture),

ICAO/IATA (air): Not Regulated (Cleaning Solvent Mixture),

IMO/IMDG (water): Not Regulated (Cleaning Solvent Mixture),

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not Regulated (Cleaning Solvent Mixture)

14.3. Additional information

Other information : No supplementary information available.

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

JOHNSEN'S PREMIUM A/C FLUSH NON-FLAMMABLE 1 GALLON

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

CERCLA RQ	None of the components have a RQ
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SARA Section 302 Threshold Planning Quantity (TPQ)	None of the components have a TPQ
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SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Immediate (acute) health hazard
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SARA Section 313 - Emission Reporting	The following components are subject to section 313 reporting requirements - 1,2 Butylene Oxide (106-88-7)
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2-Propanol (67-63-0)

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

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

CANADA

JOHNSEN'S PREMIUM A/C FLUSH NON-FLAMMABLE 1 GALLON

Listed on the Canadian DSL (Domestic Substances List)

2-Propanol (67-63-0)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification	Class B Division 2 - Flammable Liquid
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EU-Regulations

JOHNSEN'S PREMIUM A/C FLUSH NON-FLAMMABLE 1 GALLON

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)- Directive 79/831/EEC, sixth Amendment of Directive 67/548/EEC (dangerous substances)

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2-Propanol (67-63-0)

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.3; R40

F; R11

R52/53

Full text of R-phrases: see section 16

15.2.2. National regulations

2-Propanol (67-63-0)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECI (Korean Existing Chemicals Inventory)

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

15.3. US State regulations

JOHNSEN'S PREMIUM A/C FLUSH NON-FLAMMABLE 1 GALLON

U.S. - California - Proposition 65 - Carcinogens List

No

U.S. - California - Proposition 65 - Developmental Toxicity

No

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

No

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

No

State or local regulations

U.S. - New Jersey - Right to Know Hazardous Substance List

n-Propyl Bromide (106-94-5)

U.S. - California - Proposition 65 - Carcinogens List

U.S. - California - Proposition 65 - Developmental Toxicity

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

Non-significant risk level (NSRL)

No

No

No

No

1,2-Epoxybutane, Inhibited (106-88-7)

U.S. - California - Proposition 65 - Carcinogens List

U.S. - California - Proposition 65 - Developmental Toxicity

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

Non-significant risk level (NSRL)

No

No

No

No

2-Propanol (67-63-0)

U.S. - California - Proposition 65 - Carcinogens List

U.S. - California - Proposition 65 - Developmental Toxicity

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

Non-significant risk level (NSRL)

No

No

No

No

Proprietary Component (Confidential)

U.S. - California - Proposition 65 - Carcinogens List

U.S. - California - Proposition 65 - Developmental Toxicity

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

Non-significant risk level (NSRL)

No

No

No

No

2-Propanol (67-63-0)

State or local regulations

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

SECTION 16: Other information

Other information : None.

Full text of H-phrases:

H225

Highly flammable liquid and vapor

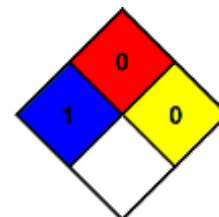
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H302	Harmful if swallowed
H310	Fatal in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard : 0 - Materials that will not burn.
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 : 0 Minimal 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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