



ACTI-KLEAN

AK1 (P/N 475107); AK5 (P/N 475111); AK55 (P/N 475114)

SDS Revision Date (mm/dd/yyyy): 02/08/2019

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SECTION 1. IDENTIFICATION

Product identifier used on the label

: **ACTI-KLEAN**

Product Code(s) : AK1 (P/N 475107); AK5 (P/N 475111); AK55 (P/N 475114)

Recommended use of the chemical and restrictions on use

: Refrigeration coil cleaner
Restriction on use: None known

Chemical family : Mixture.

Name, address, and telephone number of the supplier:

Parker Hannifin Corporation - Sporlan Division

206 Lange Drive
Washington, MO, U.S.A.
63090

Supplier's Telephone # : 636-239-1111

24 Hr. Emergency Tel # : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).

Name, address, and telephone number of the manufacturer:

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Purple liquid. Bland odor.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Classification :

Skin Corrosion/Irritation - Category 1

Eye Damage/Irritation - Category 1

Label elements

Hazard pictogram(s)



Signal Word

DANGER!

Hazard statement(s)

Causes severe skin burns and eye damage.



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Precautionary statement(s)

Do not breathe mist.
Wash hands thoroughly after handling.
Wear protective gloves/clothing and eye/face protection.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Wash contaminated clothing before reuse.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Immediately call a POISON CENTER or doctor/physician.
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 or doctor/physician.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Other hazards which do not result in classification: Burning produces obnoxious and toxic fumes. May cause respiratory tract irritation. Ingestion can cause irritation and corrosive action in the mouth, stomach and digestive tract.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
2-butoxyethanol	Butylglycol	111-76-2	1.0 - 5.0
Dodecylbenzenesulfonic acid	Dobanic acid	27176-87-0	1.0 - 5.0
Distillates (petroleum), hydrotreated light	Hydrotreated light petroleum distillates	64742-47-8	1.0 - 5.0
Tetrasodium EDTA	Edetate sodium	64-02-8	1.0 - 5.0
9 mole ethoxylated nonylphenol	Ethoxylate nonylphenol	127087-87-0	1.0 - 5.0
4 mole ethoxylated nonylphenol	Ethoxylated nonylphenol	127087-87-0	1.0 - 3.0
sodium hydroxide	Caustic soda Sodium hydrate soda lye	1310-73-2	0.1 - 1.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : Seek immediate medical attention/advice. Do not induce vomiting. Never give anything by mouth to an unconscious person.
- Inhalation* : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Seek immediate medical attention/advice.
- Skin contact* : Remove/Take off immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Seek immediate medical attention/advice.



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Eye contact : Immediately flush eyes with running water for at least 20 minutes. Seek immediate medical attention/advice.

Most important symptoms and effects, both acute and delayed

: Causes serious eye damage. Symptoms may include redness, pain, tearing and conjunctivitis. Causes severe skin irritation. Symptoms may include redness, blistering, pain and swelling. May cause respiratory irritation. Symptoms may include coughing, choking and wheezing. Ingestion may cause severe burns to the mucous membranes of the digestive tract. Symptoms may include abdominal pain, vomiting, burns, perforations and bleeding.

Indication of any immediate medical attention and special treatment needed

: Causes chemical burns. Immediate medical attention is required. Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

: Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

: Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

: Not flammable. However, may burn if exposed to extreme heat and flame. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Vapors are heavier than air and may spread along floors.

Flammability classification (OSHA 29 CFR 1910.106)

: Not flammable under normal conditions of handling.

Hazardous combustion products

: Carbon oxides; Sulphur oxides; hydrogen sulphide; Phosphorus compounds; Other unidentified organic compounds.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.

Methods and material for containment and cleaning up

: Remove all sources of ignition. Ventilate area of release. Stop leak if you can do so without risk. Prevent product from entering drains, sewers, waterways and soil. Dike for water control. Dilute acid with water and neutralize with Sodium Carbonate (soda ash) or lime. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities.



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Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).
 US CERCLA Reportable quantity (RQ): Dodecylbenzenesulfonic acid (1000 lbs / 454 kg)

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Use in a well-ventilated area. Wear suitable protective equipment during handling. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and open flames. Keep away from acids and incompatibles. Always replace cap after use. Wash thoroughly after handling. Keep out of reach of children.

Conditions for safe storage

- : Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

Incompatible materials

- : Acids; Strong bases; Strong oxidizing agents.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
	2-butoxyethanol	20 ppm	N/Av	50 ppm (skin)
Dodecylbenzenesulfonic acid	N/Av	N/Av	N/Av	N/Av
Distillates (petroleum), hydrotreated light	200 mg/m ³ (as total hydrocarbon vapour)	N/Av	N/Av	N/Av
Tetrasodium EDTA	N/Av	N/Av	N/Av	N/Av
9 mole ethoxylated nonylphenol	N/Av	N/Av	N/Av	N/Av
4 mole ethoxylated nonylphenol	N/Av	N/Av	N/Av	N/Av
sodium hydroxide	2 mg/m ³ (Ceiling)	N/Av	2 mg/m ³	N/Av

Exposure controls

Ventilation and engineering measures

- : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Respiratory protection

- : If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Advice should be sought from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

Skin protection

- : Impervious gloves must be worn when using this product. Advice should be sought from glove suppliers.

Eye / face protection

- : Chemical splash goggles are recommended. A full face shield may also be necessary.

Other protective equipment

- : Wear resistant clothing and boots. An eyewash station and safety shower should be made available in the immediate working area.

General hygiene considerations



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: Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Wash hands thoroughly after using this product, and before eating, drinking or smoking.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Purple liquid.
Odour : Bland odor.
Odour threshold : N/Av
pH : 12
Melting/Freezing point : -5°C (23°F)
Initial boiling point and boiling range
: 110°C (230°F)
Flash point : > 100°C (> 212°F)
Flashpoint (Method) : Seta Flash CC
Evaporation rate (BuAe = 1) : as water (water = 1)
Flammability (solid, gas) : Not applicable.
Lower flammable limit (% by vol.)
: N/Av
Upper flammable limit (% by vol.)
: N/Av
Oxidizing properties : None known.
Explosive properties : Not explosive
Vapour pressure : same as water
Vapour density : > 1
Relative density / Specific gravity
: 1.02
Solubility in water : miscible
Other solubility(ies) : Not available.
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution
: N/Av
Auto-ignition temperature : N/Av
Decomposition temperature : Not available.
Viscosity : > 5 cPs
Volatiles (% by weight) : 90.5 %
Volatile organic Compounds (VOC's)
: 7 g/L
Absolute pressure of container
: N/Av
Flame projection length : N/Av
Other physical/chemical comments
: None known or reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.
Chemical stability : Material is stable under normal conditions.
Possibility of hazardous reactions
: No dangerous reaction known under conditions of normal use.
Conditions to avoid : Avoid heat and open flame. Keep away from direct sunlight. Ensure adequate ventilation, especially in confined areas.



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- Incompatible materials** : See Section 7 (Handling and Storage) for further details.
Hazardous decomposition products : Peroxides Refer to Section 5 for additional 'Hazardous combustion products'.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

- Routes of entry inhalation** : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion : YES
Routes of exposure skin absorption : YES

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

- : May cause severe irritation to the nose, throat and respiratory tract. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Inhalation in very high concentrations may result in blood system effects, such as red blood cell fragility. Liver and kidney injuries may occur. May result in unconsciousness and possibly death.

Sign and symptoms ingestion

- : May cause severe irritation and corrosive damage in the mouth, throat and stomach. Ingestion may cause symptoms similar to inhalation.

Sign and symptoms skin

- : Severely irritating or corrosive. May be absorbed and cause symptoms similar to those for inhalation.

Sign and symptoms eyes

- : Direct eye contact may produce severe irritation with possible eye damage.

Potential Chronic Health Effects

- : Prolonged or repeated contact may cause drying, cracking and defatting of the skin. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood.

Mutagenicity : Not expected to be mutagenic in humans.

Carcinogenicity : Contains the following chemicals listed as confirmed animal carcinogens (A3) by ACGIH: 2-butoxyethanol. No other components are classified as carcinogenic by IARC, ACGIH, OSHA or NTP.

Reproductive effects & Teratogenicity

- : Not expected to cause reproductive effects.

Sensitization to material : Not expected to be a skin or respiratory sensitizer.

Specific target organ effects : Eyes, skin, respiratory system, central nervous system, blood system, liver, brain and kidneys. The substance or mixture is not classified as specific target organ toxicant, single exposure. The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Medical conditions aggravated by overexposure

- : Pre-existing skin, eye, respiratory or blood system disorders.

Synergistic materials : None known or reported by the manufacturer.

Toxicological data : See below for individual ingredient acute toxicity data.



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<u>Chemical name</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
2-butoxyethanol	450 ppm (2.175 mg/L)	530 mg/kg	400 - 500 mg/kg
Dodecylbenzenesulfonic acid	N/Av	650 mg/kg	N/Av
Distillates (petroleum), hydrotreated light	>6.03 mg/L (aerosol)	>5000 mg/kg	>2000 mg/kg
Tetrasodium EDTA	N/Av	> 2000 mg/kg	N/Av
9 mole ethoxylated nonylphenol	N/Av	4290 mg/kg (mouse)	N/Av
4 mole ethoxylated nonylphenol	N/Av	4290mg/kg (mouse)	N/Av
sodium hydroxide	N/Av	N/Av	N/Av

Other important toxicological hazards

: CNS depression may result from extreme exposures.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
2-butoxyethanol	111-76-2	1490 mg/L (Lepomis macrochirus)	n/av	none
Dodecylbenzenesulfonic acid	27176-87-0	3.2 - 5.6 mg/L (Rainbow trout)	N/Av	None.
Distillates (petroleum), hydrotreated light	64742-47-8	45 mg/L (Fathead minnow)	N/Av	None.
Tetrasodium EDTA	64-02-8	121 mg/L (Bluegill sunfish)	N/Av	None.
4 mole ethoxylated nonylphenol	127087-87-0	N/Av	N/Av	None.
sodium hydroxide	1310-73-2	125 mg/L (Mosquito fish)	N/Av	None.



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<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
2-butoxyethanol	111-76-2	n/av	n/av	none
Dodecylbenzenesulfonic acid	27176-87-0	3.5 mg/L (Daphnia magna)	1.65 mg/L	None.
Distillates (petroleum), hydrotreated light	64742-47-8	N/Av	N/Av	N/Av
Tetrasodium EDTA	64-02-8	140 mg/L (Daphnia magna)	22 mg/L	None.
4 mole ethoxylated nonylphenol	127087-87-0	N/Av	N/Av	None.
sodium hydroxide	1310-73-2	40 mg/L Water flea	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
2-butoxyethanol	111-76-2	n/av	n/av	none
Dodecylbenzenesulfonic acid	27176-87-0	21 mg/L/72hr (Green algae)	7.9 mg/L/72hr	None.
Distillates (petroleum), hydrotreated light	64742-47-8	N/Av	N/Av	N/Av
Tetrasodium EDTA	64-02-8	> 100 mg/L/72hr (Green algae)	48.4 mg/L/72hr	None.
4 mole ethoxylated nonylphenol	127087-87-0	50mg/L (Green algae)	N/Av	None.
sodium hydroxide	1310-73-2	N/Av	N/Av	None.

Persistence and degradability

: No data is available on the product itself. 2-Butoxyethanol is considered to be readily biodegradable (OECD). Dodecylbenzenesulfonic acid is considered to be readily biodegradable. Distillates (petroleum), hydrotreated light is not considered readily biodegradable.

Bioaccumulation potential

: No data is available on the product itself. The log Kow value for 2-butoxyethanol is 0.8, and its bioconcentration factor (BCF) is 0.97. Distillates (petroleum), hydrotreated light has a bioconcentration factor (BCF) in fish of 130 - 159 (IUCLID). The log Pow for Tetrasodium ethylenediamine tetraacetate is 5.01.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
2-butoxyethanol (CAS 111-76-2)	0.81 at 25 °C	N/Av
Dodecylbenzenesulfonic acid (CAS 27176-87-0)	N/Av	130 species: fish
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	N/Av	61 - 159 species: fish
9 mole ethoxylated nonylphenol (CAS 127087-87-0)	3.7	Not expected to bioaccumulate
4 mole ethoxylated nonylphenol (CAS 127087-87-0)	3.7	N/Av

Mobility in soil

: No data is available on the product itself.



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Other Adverse Environmental effects

: No data is available on the product itself.




SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal : Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	None	Not regulated.	not regulated	none	
TDG Additional information	None.				
49CFR/DOT	None	Not regulated.	Not regulated	none	
49CFR/DOT Additional information	None.				
ICAO/IATA	None	Not regulated.	Not regulated	none	
ICAO/IATA Additional information	None.				

Special precautions for user : Appropriate advice on safety must accompany the package.

Environmental hazards : See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:



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Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
2-butoxyethanol	111-76-2	Yes	N/Ap	N/Av	No	N/Ap
Dodecylbenzenesulfonic acid	27176-87-0	Yes	1000 lb/ 454 kg	N/Av	No	N/Ap
Distillates (petroleum), hydrotreated light	64742-47-8	Yes	N/Ap	N/Av	No	N/Ap
Tetrasodium EDTA	64-02-8	Yes	N/Ap	N/Ap	No	N/Ap
9 mole ethoxylated nonylphenol	127087-87-0	Yes	N/Ap	N/Av	No	N/Ap
4 mole ethoxylated nonylphenol	127087-87-0	Yes	N/Ap	N/Av	No	N/Ap
sodium hydroxide	1310-73-2	Yes	1000 lb/ 454 kg	None.	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Health hazards (Eye Damage ;Skin corrosion .)Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
2-butoxyethanol	111-76-2	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Dodecylbenzenesulfonic acid	27176-87-0	No	N/Ap	Yes	Yes	No	Yes	Yes	No
Distillates (petroleum), hydrotreated light	64742-47-8	No	N/Ap	No	No	No	No	No	No
Tetrasodium EDTA	64-02-8	No	N/Ap	No	No	No	No	No	No
9 mole ethoxylated nonylphenol	127087-87-0	No	N/Ap	No	No	No	No	No	No
4 mole ethoxylated nonylphenol	127087-87-0	No	N/Ap	No	No	No	No	No	No
sodium hydroxide	1310-73-2	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

International Information:

Components listed below are present on the following International Inventory list:



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Ingredients	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
2-butoxyethanol	111-76-2	203-905-0	Present	Present	(7)-97; (2)-407	KE-04134	Present	HSR001154
Dodecylbenzenesulfonic acid	27176-87-0	248-289-4	Present	Present	(3)-1907; (3)-1884	KE-12947	Present	HSR003407
Distillates (petroleum), hydrotreated light	64742-47-8	265-149-8	Present	Present	(9)-1700	KE-12550	Present	No information available.
Tetrasodium EDTA	64-02-8	200-573-9	Present	Present	(2)-1265	KE-13654	Present	HSR003275
9 mole ethoxylated nonylphenol	127087-87-0	N/Av	Present	Present	No data available.	No data available.	Present	No data available.
4 mole ethoxylated nonylphenol	127087-87-0	N/Av	Present	Present	No data available.	No data available.	Present	No data available.
sodium hydroxide	1310-73-2	215-185-5	Present	Present	(2)-1972; (1)-410	KE-31487	Present	HSR001547

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists
AICS: Australian Inventory of Chemical Substances
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
CNS: Central Nervous System
DOT: Department of Transportation
EINECS: European Inventory of Existing Commercial chemical Substances
ENCS: Existing and New Chemical Substances
HMIS: Hazardous Materials Identification System
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
Inh: Inhalation
IOC: Inventory of Chemicals
KECI: Korean Existing Chemicals Inventory
KECL: Korean Existing Chemicals List
LC: Lethal Concentration
LD: Lethal Dose
MSHA: Mine Safety and Health Administration
N/Ap: Not Applicable
N/Av: Not Available
NFPA: National Fire Protection Association
NIOSH: National Institute of Occupational Safety and Health
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
RCRA: Resource Conservation and Recovery Act
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System



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1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016
2. International Agency for Research on Cancer Monographs, searched 2017
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2017(Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - 2017 version.
6. California Proposition 65 List - 2017 version.
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal,2017.

Preparation Date (mm/dd/yyyy)

: 05/13/2015

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: 5

Revision Information

: (M)SDS sections updated :

1. IDENTIFICATION
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3. COMPOSITION/INFORMATION ON INGREDIENTS
14. TRANSPORT INFORMATION
15. REGULATORY INFORMATION
16. Other information

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

HMIS Rating

: *- Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
*Health: *3 Flammability: 1 Reactivity: 0*

NFPA Rating

0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
 : *Health: 3 Flammability: 1 Instability: 0 Special Hazards: None.*

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