



ACTI-KLEAN

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

SDS Revision Date (mm/dd/yyyy): 05/13/2015

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SAFETY DATA SHEET

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.

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

WHMIS information: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR). WHMIS classification:

- Class D1A (Materials Causing Immediate and Serious Toxic Effects, Very Toxic Material);
- Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material);
- Class D2B (Materials Causing Other Toxic Effects, Toxic Material);
- Class E (Corrosive Material) .

OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200). Hazardous classification:

Skin Corrosion/Irritation - Category 1

Eye Damage/Irritation - Category 1

Label elements

The following label information is applicable only to the United States according to OSHA Regulations (29 CFR 1910.1200) (Hazcom 2012):

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.



The following label information is applicable only to Canada according to the Canadian Controlled Products Regulations (CPR/WHMIS):

DANGER!

Corrosive material. Causes skin and eye burns. Toxic. Toxic if swallowed, in contact with skin or if inhaled. May cause respiratory irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Use only in well-ventilated areas. Wear protective gloves/clothing and eye/face protection. Do not breathe mist. Avoid contact with skin, eyes and clothing. Avoid contact with incompatible materials. Keep containers tightly closed when not in use.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention/advice.



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.



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<u>Chemical name</u>	<u>CAS #</u>	<u>Concentration</u>
2-butoxyethanol	111-76-2	1.0 - 5.0
Dodecylbenzenesulfonic acid	27176-87-0	1.0 - 5.0
Distillates (petroleum), hydrotreated light	64742-47-8	1.0 - 5.0
Tetrasodium EDTA	64-02-8	1.0 - 5.0
9 mole ethoxylated nonylphenol	127087-87-0	1.0 - 5.0
4 mole ethoxylated nonylphenol	127087-87-0	1.0 - 3.0
sodium hydroxide	1310-73-2	0.1 - 1.0

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.
- 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.

Explosion Data: Sensitivity to Mechanical Impact / Static Discharge:

- : Not expected to be sensitive to mechanical impact or static discharge.

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



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

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 the 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



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<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)	N/Av
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

: 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 odour.
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



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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.
Incompatible materials : Acids; Strong bases; Strong oxidizing agents.
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



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: 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.

Senitization 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.

Irritancy

: Severely irritating or corrosive.

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.

Chemical name	LC₅₀(4hr) inh, rat	LD₅₀	
		(Oral, rat)	(Rabbit, dermal)
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



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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>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
2-butoxyethanol	111-76-2	1490 mg/L (Lepomis marcrhius)	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.

<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



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- Bioaccumulation potential** : 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.
- Mobility in soil** : No data is available on the product itself.
- 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. Contact your local, state, provincial or federal environmental agency for specific rules.
- 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. TRANSPORTATION 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** :
- Environmental hazards** : See ECOLOGICAL INFORMATION, Section 12.
- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** :



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SECTION 15 - REGULATORY INFORMATION

US Federal Information:

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

<u>Ingredients</u>	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, MSDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute) health hazard; Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for 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:

<u>Ingredients</u>	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.



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This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

International Information:

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

<u>Ingredients</u>	<u>CAS #</u>	<u>European EINECs</u>	<u>Australia AICS</u>	<u>Philippines PICCS</u>	<u>Japan ENCS</u>	<u>Korea KECI/KECL</u>	<u>China IECSC</u>	<u>NewZealand IOC</u>
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



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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

References

- : Canadian Centre for Occupational Health and Safety, CCIInfoWeb Databases, 2015 (Chempendium, RTECs, HSDB, INCHEM).
- OECD- The Global Portal to Information on Chemical Substances - eChemPortal, 2015
- 31456□11□Material Safety Data Sheet from manufacturer□
- European Chemicals Agency, Classification Legislation, 2015

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: 11/27/2013

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Revision Information

: (M)SDS sections updated:
 3. COMPOSITION/INFORMATION ON INGREDIENTS
 9. PHYSICAL AND CHEMICAL PROPERTIES

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.





ACTI-KLEAN

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

SDS Revision Date (mm/dd/yyyy): 05/13/2015

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SAFETY DATA SHEET

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