



Parker Hannifin Corporation
Sporlan Division
206 Lange Drive
Washington, MO, U.S.A., 63090
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ACTI-KLEAN

AK1,AK5,AK55

SDS Preparation Date (dd/mm/yyyy): 18/10/2024

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SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended. This safety data sheet complies with the requirements of UK REACH Regulation.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier : ACTI-KLEAN

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

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

: Refrigeration coil cleaner
Use pattern: professional use
Restriction on use: None known

1.3 Details of the supplier of the safety data sheet:

Parker Hannifin Corporation - Sporlan Division

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

Telephone : (636) 239 1111

1.4 Emergency Telephone Number

: In case of transportation emergencies: Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).

Poisons Information Centre
The United Kingdom NHS 111
France +33383852192
Germany +493018412-0
Spain +34917689800
Poland +48422538400
Italy
06 68593726 (CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza - Roma) 800
183459 (Az. Osp. Univ. Foggia - Foggia)
081 5453333 (Az. Osp. "A. Cardarelli" - Napoli)
06 49978000 (CAV Policlinico "Umberto I" - Roma)
06 3054343 (CAV Policlinico "A. Gemelli" - Roma)
055 7947819 (Az. Osp. "Careggi" U.O. Tossicologia Medica - Firenze)
0382 24444 (CAV Centro Nazionale di Informazione Tossicologica - Pavia) 02
66101029 (Osp. Niguarda Ca' Granda - Milano)
800 883300 (Azienda Ospedaliera Papa Giovanni XXII - Bergamo)

1.5 National Contact

: +001 (636) 239-1111

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Green liquid. Bland odour.

Most important hazards:

Causes skin and eye irritation. Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008. Classification:

Skin Corrosion/Irritation - Category 1 ; H314

EUH066 - Repeated exposure may cause skin dryness or cracking.

EUH381 - Suspected of causing endocrine disruption in humans



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2.2 Label elements

Hazard pictogram(s)



Hazardous components which must be listed on the label Nonylphenol ethoxylate

Signal word Danger

Hazard statements

H314 - Causes severe skin burns and eye damage.

EUH066 - Repeated exposure may cause skin dryness or cracking.

EUH381 Suspected of causing endocrine disruption in humans

Precautionary statements

P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

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.

P310 - Immediately call a POISON CENTER or doctor/physician.

2.3 Other hazards

Toxic fumes, gases or vapours may evolve on burning. Prolonged or repeated skin contact may cause drying, cracking, or redness or irritation. May cause mild respiratory irritation at higher temperatures. May cause gastrointestinal irritation.

Endocrine disrupting properties: May cause endocrine disruption.

PBT assessment:

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature Mixture

Substance name	CAS No	EC No.	Reach Registration No.	% Weight	Classification according to Regulation (EC) nr. 1272/2008	SCL, M-factor, ATE
Nonylphenol ethoxylate	127087-87-0	500-315-8	Not available	2.0 - 8.0	Skin Irrit. 2;H315 Eye Dam. 1; H318 ED HH2; EUH381	Not applicable.



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Dodecylbenzene sulfonic acid	27176-87-0	248-289-4	Not available	1.0 - 5.0	Acute Tox. 4 ;H302 Skin Irrit. 2 H315 Eye Irrit. 2 H319	ATE oral = 12000 mg/kg
Distillates (petroleum), hydrotreated light	64742-47-8	265-149-8	Not available	1.0 - 5.0	Asp. Tox. 1; H304 *Aquatic Chronic 4; H413 *EUH066	Not applicable.
2-butoxyethanol	111-76-2	203-905-0	Not available	1.0 - 5.0	Acute Tox. 3; H311 Acute Tox. 3; H331 Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315	ATE oral = 10600 mg/kg ATE dermal = 8000 mg/kg ATE inhalation (vapours) = 55 mg/L
Tetrasodium EDTA	64-02-8	200-573-9	Not available	1.0 - 5.0	Skin Irrit. 2 H315 Eye Irrit. 2 H318	Not applicable.
Sodium Hydroxide	1310-73-2	215-185-5	Not available	0.1 - 1.0	Skin Corr. 1A; H314	Not applicable.

For the full text of the H phrases not mentioned in this Section or in Section 2, see Section 16.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

- Ingestion* : Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.
- Inhalation* : If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. If irritation or symptoms develop, seek medical attention.
- Skin contact* : For skin contact, wash with soap and water while removing contaminated clothing. Immediately call a POISON CENTRE or doctor/physician.
- Eye contact* : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediately call a POISON CENTRE or doctor/physician.

4.1.2 Self-protection for the first aider

- : None known or reported by the manufacturer.

4.2 Most important symptoms and effects, both acute and delayed

- : Causes skin burns. Symptoms may include redness, itching and swelling. Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis. Permanent eye damage including blindness could result. May cause mild respiratory irritation at higher temperatures. May cause coughing and breathing difficulties. If material is ingested, may cause irritation to mucous membranes. May cause nausea, stomach pain and vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

- : Immediate medical attention is required. Causes burns. Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES



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5.1 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

- : Water may cause spattering of hot material and may spread burning.

5.2 Special hazards arising from the substance or mixture

- : Not considered flammable but may burn at high temperatures. Toxic fumes, gases or vapours may evolve on burning.

5.3 Advice 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. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

- : Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

- : Keep people away from and upwind of spill/leak. Wear appropriate protective equipment. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

- : Prevent product from entering drains, sewers, waterways and soil.

6.3 Methods and material for containment and cleaning up

- : Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Vacuum or sweep up spilled material using a method that does not generate airborne dust. Keep in properly labelled containers. Contact the proper local authorities.

6.4 Reference to other sections

- : Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of contaminated material.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

- : Use with adequate ventilation. Wear suitable protective equipment during handling. Avoid breathing mist or vapor. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Keep away from incompatibles. Keep containers closed when not in use. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

- : Store in cool/well-ventilated place. Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Keep away from incompatibles.

7.3 Specific end use(s)

- : Refrigeration coil cleaner

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits:



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<u>Chemical Name</u>	<u>Exposure Limits</u>	<u>Type</u>	<u>Notes</u>
Dodecylbenzene sulfonic acid	None.	European Union (OEL)	None.
	None.	The United Kingdom (WELs)	None.
Distillates (petroleum), hydrotreated light	None known.	European Union (OEL)	None.
	None.	The United Kingdom (WELs)	None.
2-butoxyethanol	20 ppm (98 mg/m ³) (TWA) 50 ppm (246 mg/m ³) (STEL)	European Union (OEL)	Possibility of significant uptake through the skin
	10 ppm (49 mg/m ³) (indicative limit) (TWA) 50 ppm (246 mg/m ³) (indicative limit) (STEL)	France (OEL)	Risk of cutaneous absorption
	10 ppm (49 mg/m ³) (exposure factor 4) (TWA)	Germany (OEL)	Skin notation
	20 ppm (98 mg/m ³) (TWA) 50 ppm (246 mg/m ³) (STEL)	Italy (OEL)	Skin - Potential for cutaneous absorption
	20 ppm (98 mg/m ³) (TWA) 50 ppm (245 mg/m ³) (STEL)	Spain (OEL)	Skin - Potential for cutaneous absorption
	25 ppm (123 mg/m ³) (TWA) 50 ppm (246 mg/m ³) (STEL)	The United Kingdom (WELs)	Potential for cutaneous absorption

Biological Exposure Indices:

<u>Chemical Name</u>	<u>Biological Exposure Indices</u>	<u>Type</u>
2-butoxyethanol	100 mg/L, Determinant: Butoxyacetic acid (for long-term exposure), Specimen: Urine 150 mg/g Creatinine, Specimen: Butoxyacetic acid (for long-term exposure after hydrolysis), Specimen: Urine	Germany. TRGS 903, BAT List (Biological Limit Values)
	240 mmol/mol Creatinine, Determinant: Butoxyacetic acid, Specimen: Urine	UK. EH40 Biological Monitoring Guidance Values (BMGVs)
	200 mg/g Creatinine, Determinant: Butoxyacetic acid with hydrolysis, Specimen: Urine	Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4

Derived No Effect Level (DNEL) Not available.

Predicted No Effect Concentration (PNEC) Not available.

8.2 Exposure controls

Ventilation and engineering measures



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- Respiratory protection** : Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.
- Skin protection** : In case of insufficient ventilation wear suitable respiratory equipment. Seek advice from respiratory protection specialists.
- Eye / face protection** : Wear protective gloves. Advice should be sought from glove suppliers.
- Other protective equipment** : Wear safety goggles or glasses as appropriate for the job. See also EN 166.
- : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.
- General hygiene considerations** : Avoid breathing mist or vapor. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

8.3 Environmental exposure controls

- : Avoid release to the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical state** : Liquid.
- Colour** : green
- Odour** : Bland odour.
- Odour threshold** : Not available.
- pH** : 12
- Flash point** : >100°C
- Flashpoint (Method)** : Closed cup
- Lower flammable limit (% by vol.)** : Not available.
- Upper flammable limit (% by vol.)** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Oxidizing properties** : Not applicable
- Explosive properties** : Not explosive
- Initial boiling point and boiling range** : >110°C
- Melting/Freezing point** : -5°C
- Relative density** : 1.02
- Solubility in water** : Soluble
- Other solubility(ies)** : Not available.
- Vapour pressure** : Not available.
- Vapour density** : >1
- Partition coefficient: n-octanol/water** : Not available.
- Viscosity** : >5 cps



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Evaporation rate (BuAe = 1)

: same as water

Particle characteristics : Not applicable

9.2 Other Information

Volatiles (% by weight) : 90.5%

Volatile organic Compounds (VOC's)

: 7 g/L

Other physical/chemical comments

: Not available.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity : Not normally reactive.

10.2 Chemical stability : Stable under normal conditions.

10.3 Possibility of hazardous reactions

: Hazardous polymerization does not occur. No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

10.5 Incompatible materials

: Strong oxidizing agents

10.6 Hazardous decomposition products

: Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:

Acute toxicity : According to the classification criteria of the European Union, this product is not considered as being an acutely toxic chemical.

Skin corrosion/Irritation : Causes severe skin irritation.

Serious eye damage/irritation

: Causes serious eye damage.

Respiratory or skin sensitisation

: According to the classification criteria of the European Union, this product is not considered as being an allergic skin sensitiser.

According to the classification criteria of the European Union, this product is not considered as being an allergic respiratory sensitiser.

Germ cell mutagenicity : No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity : According to the classification criteria of the European Union, the product is not considered as being a carcinogen.

Reproductive toxicity : According to the classification criteria of the European Union, this product is not considered as being toxic to reproduction.

STOT-single exposure : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through a single exposure.

STOT-repeated exposure : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated exposures.

Aspiration hazard : According to the classification criteria of the European Union, this product is not considered as being an aspiration hazard to humans.



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- Routes of exposure** : Inhalation
Ingestion
Eye contact
Skin contact
- Effects of acute exposure** : Causes serious eye damage. Symptoms may include redness, pain, tearing and conjunctivitis.
Causes severe skin burns. Symptoms may include redness, itching and swelling.
May cause mild respiratory irritation at higher temperatures.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- Potential Chronic Health Effects** : Prolonged or repeated contact may cause redness, drying and itching of the skin (dermatitis).

11.1.1 Acute Toxicity

- Toxicological data** : Not classified for acute toxicity based on available data. No data is available on the product itself.
ATE oral = 7526.09 mg/kg
ATE dermal = 8113.59 mg/kg
ATE inhalation (vapours) = 30.03 mg/L

See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Nonylphenol ethoxylate	N/Av	960 - 3980 mg/kg	> 2000 - 2911 mg/kg
Dodecylbenzene sulfonic acid	N/Av	650 mg/kg	2000 mg/kg
Distillates (petroleum), hydrotreated light	>6.03 mg/L (aerosol)	>5000 mg/kg	>2000 mg/kg
2-butoxyethanol	450 ppm (2.175 mg/L) (vapour)	530 mg/kg	400 - 500 mg/kg
Tetrasodium EDTA	N/Av	1658mg/kg	N/Av
Sodium Hydroxide	N/Av	N/Av	N/Av

11.2 Information on other Hazards

- : Not applicable
- 11.2.1 Endocrine disrupting properties May cause endocrine disruption. :
11.2.2 Other hazards :Not applicable

SECTION 12. ECOLOGICAL INFORMATION

- 12.1 Toxicity** : 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.



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Ecotoxicity data:

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Nonylphenol ethoxylate	127087-87-0	2.5 - 12.5 mg/L (Fathead minnow)	N/Av	None.
Dodecylbenzene sulfonic acid	27176-87-0	3.2 - 5.6 mg/L (Rainbow trout)	1.121 mg/L (30 days) (QSAR)	None.
Distillates (petroleum), hydrotreated light	64742-47-8	45 mg/L (Fathead minnow)	N/Av	None.
2-butoxyethanol	111-76-2	1490 mg/L (Bluegill sunfish)	> 100 mg/L (Zebra fish)	None.
Tetrasodium EDTA	64-02-8	41 mg/L	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
Nonylphenol ethoxylate	127087-87-0	2.57 - > 100 mg/L (Daphnia magna)	N/Av	None.
Dodecylbenzene sulfonic acid	27176-87-0	5.88 mg/L (Daphnia magna)	1.65 mg/L (Read-across)	None.
Distillates (petroleum), hydrotreated light	64742-47-8	N/Av	N/Av	N/Av
2-butoxyethanol	111-76-2	835 mg/L (Daphnia magna)	100 mg/L	None.
Tetrasodium EDTA	64-02-8	N/Av	N/Av	None.
Sodium Hydroxide	1310-73-2	40.4 mg/L (Daphnia magna)	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Nonylphenol ethoxylate	127087-87-0	12 - 50 mg/L/96hr (Green algae)	N/Av	None.
Dodecylbenzene sulfonic acid	27176-87-0	65.4 mg/L/72hr (Green algae)	7.9 mg/L/72hr	None.
Distillates (petroleum), hydrotreated light	64742-47-8	N/Av	N/Av	N/Av
2-butoxyethanol	111-76-2	911 mg/L/72hr (Green algae)	286 mg/L/72hr	None.
Tetrasodium EDTA	64-02-8	1.01 mg/L	N/Av	None.
Sodium Hydroxide	1310-73-2	N/Av	N/Av	None.

12.2 Persistence and degradability

: Not readily biodegradable.



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12.3 Bioaccumulation potential

: See the following data for ingredient information.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Dodecylbenzene sulfonic acid (CAS 27176-87-0)	1.96	36 - 119
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	5.1-8.8	N/Av
2-butoxyethanol (CAS 111-76-2)	0.8	0.97
Tetrasodium EDTA (CAS 64-02-8)	- 13.17 (estimated)	1.8 (Bluegill sunfish)

12.4 Mobility in soil : Not available.

12.5 Results of PBT and vPvB assessment

: This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Endocrine disrupting properties

: None known or reported by the manufacturer.

12.7 Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

12.8 Additional information : None known.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

- Handling for Disposal** : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. This material and its container must be disposed of in a safe way. Empty containers retain residue and can be dangerous. Follow labeled warnings even after container is emptied.
- Methods of Disposal** : According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

SECTION 14. TRANSPORTATION INFORMATION



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Regulatory Information	14.1 UN Number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing Group	Label
ICAO/IATA	None.	Not regulated.	not regulated	none	
ICAO/IATA Additional information	None.				
IMDG	None.	Not regulated.	not regulated	none	
IMDG Additional information	None.				
ADR/RID	None.	not regulated	not regulated	none	
ADR/RID Additional information	Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous goods by road and rail.				

14.5 Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

14.6 Special precautions for user

: Appropriate advice on safety must accompany the package.

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

: Not applicable.

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture



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: Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous mixtures. This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) 2023/707].

Authorisations:

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: (CAS 127087-87-0)

Restrictions on use:

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended
None of the components are specifically listed.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances:

None of the components are specifically listed.

RoHS European Union's Directive 2002/95/EC, the Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) : Not applicable.

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work: (CAS 127087-87-0)

Directive 94/33/EC on the protection of young people at work: (CAS 127087-87-0)

Follow national regulation for work with chemical agents.

German legislation on substances that are hazardous to water AwSV: Water hazard class (Germany) - 1

15.2 Chemical safety assessment

: A chemical safety assessment has not been carried out by the Manufacturer of this product.

SECTION 16. OTHER INFORMATION

Legend : ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods

Information Source : 1. Material Safety Data Sheet from manufacturer.
2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases
3. European Chemicals Agency, Classification Legislation
4. OECD - The Global Portal to Information on Chemical Substances

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Regulation and Procedure

:



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Skin irritation; Eye Damage ; Expert judgement

H-phrases (full-text)

H302 - Harmful if swallowed.

H304 - May be fatal if swallowed and enters airways.

H311 - Toxic in contact with skin.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H319 - Causes serious eye irritation.

H331 - Toxic if inhaled.

H413 - May cause long lasting harmful effects to aquatic life.

EUH066 - Repeated exposure may cause skin dryness or cracking.

EUH381 - Suspected of causing endocrine disruption in humans

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

Prepared for:

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