



Parker Hannifin Corporation
Sporlan Division
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ACTI-Brite Biodegradable

AB-1, AB-5

SDS Preparation Date (dd/mm/yyyy): 01/10/2024

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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-Brite Biodegradable

Product Code(s) : AB-1 (P/N 475210), AB-5 (P/N 475209)

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

- : Refrigeration and air conditioning
- Use pattern: Professional Use Only
- Refer to restrictions found in REACH Annex XVII item 55.
- Refer to restrictions found in REACH Annex XVII item 75.

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



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Clear pink. Bland odor.

Most important hazards: Causes severe skin burns and eye damage. May cause respiratory irritation. Refer also to TOXICOLOGICAL INFORMATION (Section 11). Avoid release to the environment.

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

Hazard classification:

Skin Corrosion/Irritation - Category 1 :H314

Specific target organ toxicity, single exposure; Category 3 ;H335

2.2 Label elements

Hazard pictogram(s)



Hazardous components which must be listed on the label : Urea hydrochloride, Ammonium fluoride, Diethylene glycol butyl ether, Alcohols,C9-11, ethoxylated.

Signal word

Danger!

Hazard statements

H314 - Causes severe skin burns and eye damage.

H335 - May cause respiratory irritation.

Precautionary statements

P264 - Wash hands thoroughly after handling.

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

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

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P501 - Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

Chronic skin contact with low concentrations may cause dermatitis. Prolonged exposure may cause skeletal fluorosis (weakened bone structure). Symptoms of Fluorosis include fragile bones, stiffness of the joints, osteosclerosis, loss of appetite, nausea, vomiting, dyspnea, salivation, abdominal pain, fever, paresthesias, nystagmus, optic neuritis, polyuria, stomatitis, albuminuria, nettle rash, skin, tooth and kidney damage and cardiac arrhythmias.

Endocrine disrupting properties: Not applicable.

PBT assessment

This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature of the mixture Mixture

The following substances shall be indicated according to legislation:

| Substance name | CAS No | EC No. | Reach Registration No. | % Weight | Classification according to Regulation (EC) nr. 1272/2008 | SCL M-factor, ATE |
|----------------------------------|------------|-----------|------------------------------|------------|--|-------------------------|
| Ammonium bifluoride | 1341-49-7 | 215-676-4 | Not available | 5.0 - 10.0 | Acute Tox. 3; H301 Skin Corr. 1B;H314 (Minimum classification) | ATE oral =1300 mg/kg |
| Urea hydrochloride | 506-89-8 | 208-059-6 | Not available | 5.0 - 10.0 | Skin Irrit. 2;H315; Eye Irrit. 2;H319; STOT SE 3 ;H335 | Not applicable. |
| Diethylene glycol butyl ether | 112-34-5 | 203-961-6 | Not available | 1.0 - 5.0 | Eye Irrit. 2; H319 | Not applicable. |
| Alcohols, C9-11, ethoxylated | 68439-46-3 | 500-446-0 | Not available | 1.0 - 5.0 | Eye Irrit. 2; H319 Aquatic Chronic 3; H413 | Not applicable. |

The above CLP Acute toxicity Classifications for the following chemicals are 'Minimum Classifications': Ammonium bifluoride

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

- Ingestion* : Do not induce vomiting. Have victim rinse mouth with water, then give one to two glasses of water to drink. Seek immediate medical attention/advice. Never give anything by mouth to an unconscious person.
- Inhalation* : Immediately remove person to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. Seek immediate medical attention/advice.
- Skin contact* : Remove contaminated clothing. Flush affected skin with gently flowing lukewarm water for at least 20 minutes. Cover wound with sterile dressing. Do not rub area of contact. Wash contaminated clothing before re-use. Seek immediate medical attention/advice.
- Eye contact* : Immediately flush eyes thoroughly with running water for at least 20 to 30 minutes. Protect unharmed eye. Seek immediate medical attention/advice.

4.1.2 Self-protection for the first aider

- : Wear protective gloves and eye/face protection.



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4.2 Most important symptoms and effects, both acute and delayed

- : If mists are formed, may cause severe irritation to the nose, throat and respiratory tract. Symptoms may include coughing, choking and wheezing. Overexposure to sprays or mists may cause chemical pneumonitis (inflammation of lung tissue). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed. Causes severe skin irritation. Symptoms may include redness, blistering, pain and swelling. Causes serious eye damage. Symptoms may include severe pain, blurred vision, redness and corrosive damage. Could cause blindness. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Prolonged exposure may cause skeletal fluorosis (weakened bone structure). Symptoms of Fluorosis include fragile bones, stiffness of the joints, osteosclerosis, loss of appetite, nausea, vomiting, dyspnea, salivation, abdominal pain, fever, paresthesias, nystagmus, optic neuritis, polyuria, stomatitis, albuminuria, nettle rash, skin, tooth and kidney damage and cardiac arrhythmias.

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

- : Use water fog or fine spray, foams, carbon dioxide or dry chemical. Some chemical extinguishing agents may react with this material.

Unsuitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture

- : Not considered flammable. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Vapours are heavier than air and collect in confined and low-lying areas. Burning may produce irritating, toxic and obnoxious fumes.

5.3 Advice for firefighters

Protective equipment for fire-fighters

- : Firefighters should wear an approved full-face, self-contained breathing apparatus (SCBA) and impervious clothing. Do not enter without wearing specialized protective equipment suitable for the situation. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. A full-body encapsulating chemical protective suit with positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary.

Special fire-fighting procedures

- : 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

6.1 Personal precautions, protective equipment and emergency procedures

- : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Individuals involved in the cleanup must wear appropriate personal protective equipment. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

6.2 Environmental precautions

- : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

6.3 Methods and material for containment and cleaning up



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- : Remove all sources of ignition. Ventilate area of release. Stop the spill at source if it is safe to do so. 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). Do not flush into surface water or sanitary sewer system. Notify the appropriate authorities as required.

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 only in well-ventilated areas. Wear protective gloves/clothing and eye/face protection. Do not breathe fumes or vapours. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep away from bases, metals and other incompatibles. Keep away from heat and flame. Keep containers tightly closed when not in use.

7.2 Conditions for safe storage, including any incompatibilities

- : Store in a cool, dry, well-ventilated area. 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. Store in corrosion-resistant containers. Store locked up.

7.3 Specific end use(s)

- : Refrigeration and air conditioning

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

| Exposure Limits: | | | |
|--------------------------------------|--|---------------------------|-----------------------|
| Chemical Name | Exposure Limits | Type | Notes |
| Alcohols, C9-11, ethoxylated | N/Av | European Union (OEL) | N/Av |
| Ammonium bifluoride | N/Av | European Union (OEL) | N/Av |
| | 0.2 mg/m ³ TWA; | Latvia (OEL) | N/Av |
| Diethylene glycol butyl ether | 10 ppm (67.5 mg/m ³) (TWA) | European Union (OEL) | None. |
| | 15 ppm (101.2 mg/m ³) (STEL) | | |
| | 10 ppm (67.5 mg/m ³) (TWA) | France (OEL) | None. |
| | 15 ppm (101.2 mg/m ³) (STEL) | | |
| | 10 ppm (67 mg/m ³) (TWA) | Germany (OEL) | (exposure factor 1.5) |
| | 10 ppm (67.5 mg/m ³) (TWA) | Italy (OEL) | None. |
| | 15 ppm (101.2 mg/m ³) (STEL) | | |
| | 67 mg/m ³ (TWA) | Poland (OEL) | None. |
| | 100 mg/m ³ (STEL) | | |
| | 10 ppm (67.5 mg/m ³) (TWA) | Spain (OEL) | None. |
| | 15 ppm (101.2 mg/m ³) (STEL) | | |
| Urea hydrochloride | 10 ppm (67.5 mg/m ³) (TWA) | The United Kingdom (WELs) | None. |
| | 15 ppm (101.2 mg/m ³) (STEL) | | |



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| | | |
|------|---------------------------|------|
| N/Av | European Union (OEL) | N/Av |
| N/Av | The United Kingdom (WELs) | N/Av |

Biological Exposure Indices:

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL)

(CAS 1341-49-7) general population oral systemic effects long term exposure 0.015 mg/kg bw/day; general population oral systemic effects acute/short term exposure 0.015 mg/kg bw/day; general population inhalation systemic effects long term exposure 0.045 mg/m³; workers inhalation systemic effects long term exposure 2.3 mg/m³; workers inhalation local effects acute/short term exposure 3.8 mg/m³

(CAS 112-34-5) general population oral systemic effects long term exposure 5 mg/kg bw/day; general population inhalation systemic effects long term exposure 40.5 mg/m³; general population inhalation local effects long term exposure 40.5 mg/m³; general population dermal systemic effects long term exposure 50 mg/kg bw/day; general population inhalation local effects acute/short term exposure 60.7 mg/m³; workers inhalation systemic effects long term exposure 67.5 mg/m³; workers inhalation local effects long term exposure 67.5 mg/m³; workers dermal systemic effects long term exposure 83 mg/kg bw/day; workers inhalation local effects acute/short term exposure 101.2 mg/m³

(CAS 68439-46-3) general population oral systemic effects long term exposure 25 mg/kg bw/day; general population inhalation systemic effects long term exposure 87 mg/m³; workers inhalation systemic effects long term exposure 294 mg/m³; general population dermal systemic effects long term exposure 1250 mg/kg bw/day; workers dermal systemic effects long term exposure 2080 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

(CAS 1341-49-7) 1.3 mg/L (freshwater); 76 mg/L (sewage treatment); 22 mg/kg (soil)

(CAS 112-34-5) 1.1 mg/L (freshwater); 0.11 mg/L (marine water); 11 mg/L (freshwater (intermittent releases)); 4.4 mg/kg (sediment (freshwater)); 0.44 mg/kg (sediment (marine water)); 200 mg/L (sewage treatment); 0.32 mg/kg (soil)

(CAS 68439-46-3) 0.10379 mg/L (freshwater); 0.10379 mg/L PNEC (marine water); 0.014 mg/L (freshwater (intermittent releases)); 13.7 mg/kg (sediment (freshwater)); 13.7 mg/kg (sediment (marine water)); 1.4 mg/L (sewage treatment); 1 mg/kg (soil)

8.2 Exposure controls

Ventilation and engineering measures

- : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Ensure adequate ventilation, especially in confined areas.

Respiratory protection

- : Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. A self contained breathing apparatus should be used in emergency situations or instances where exposure levels are not known. 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. Advice should be sought from respiratory protection specialists.

Skin protection

- : Wear protective gloves/clothing. Advice should be sought from glove suppliers.

Eye / face protection

- : Wear eye/face protection. Chemical splash goggles must be worn when handling this material. A full face shield may also be necessary.

Other protective equipment

- : Wear chemically protective gloves (impervious), boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. An eyewash station and safety shower should be made available in the immediate working area.

General hygiene considerations

- : Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Contaminated work clothing should not be allowed out of the workplace.

8.3 Environmental exposure controls

- : Avoid release to the environment.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|---|-------------------|
| Physical state | : Liquid |
| Colour | : pink |
| Odour | : Bland odor. |
| Odour threshold | : Not applicable. |
| pH | : < 2.0 |
| Flash point | : N/Ap |
| Flashpoint (Method) | : Not applicable. |
| Lower flammable limit (% by vol.) | : Not applicable. |
| Upper flammable limit (% by vol.) | : Not applicable. |
| Auto-ignition temperature | : Not applicable. |
| Decomposition temperature | : Not available. |
| Oxidizing properties | : Not applicable |
| Explosive properties | : Not explosive |
| Initial boiling point and boiling range | : 100°C |
| Melting/Freezing point | : 0°C |
| Relative density | : 1.0 |
| Solubility in water | : Complete |
| Other solubility(ies) | : None known. |
| Vapour pressure | : 23.8 mmHg |
| Vapour density | : > 1 |
| Partition coefficient: n-octanol/water | : Not applicable. |
| Viscosity | : <20 cps |
| Evaporation rate (BuAe = 1) | : > 1 |
| Particle characteristics | : Not applicable. |

9.2 Other Information

| | |
|------------------------------------|------------------|
| Volatiles (% by weight) | : 89% |
| Volatile organic Compounds (VOC's) | : 20 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 the recommended storage and handling conditions prescribed. |
| 10.3 Possibility of hazardous reactions | : No dangerous reaction known under conditions of normal use. |
| 10.4 Conditions to avoid | : Avoid heat and open flame. Avoid contact with incompatible materials. |



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10.5 Incompatible materials

: Oxidizing agents; Metals; Alkalies Reducing agents.

10.6 Hazardous decomposition products

: The following may be released during a fire: Carbon oxides. Other irritating fumes and smoke.

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 : Skin Irritation - Category 1 Causes skin burns.

Serious eye damage/irritation

: Eye damage/irritation Category 1 Causes serious eye damage.

Respiratory or skin sensitisation

: Not expected to be a skin or respiratory sensitizer.

Germ cell mutagenicity : Not expected to be mutagenic in humans.

Carcinogenicity : Not classifiable as a human carcinogen. No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive toxicity : Not expected to have other reproductive effects.

STOT-single exposure : Specific target organ toxicity, single exposure Category 3

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.

Routes of exposure : Inhalation
Ingestion
Skin contact
Eye contact

Effects of acute exposure : May cause respiratory irritation. Symptoms may include coughing, choking and wheezing. Extremely high exposures may lead to inflammation of lung tissue (chemical pneumonitis), chemical bronchitis and accumulation of fluid in the lungs (pulmonary edema).

Ingestion may cause severe irritation to the mouth, throat and stomach.

Causes severe skin burns. Symptoms may include redness, blistering, pain and swelling.

Causes serious eye damage. Symptoms may include redness, pain, tearing and conjunctivitis. Could result in permanent damage and blindness.

Potential Chronic Health Effects

: Chronic skin contact with low concentrations may cause dermatitis. Prolonged exposure may cause skeletal fluorosis (weakened bone structure). Repeated or prolonged exposure may result in kidney effects.

11.1.1 Acute Toxicity

Toxicological data : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data. The calculated ATE values for this mixture are:
ATE oral = 4301.66 mg/kg



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| <u>Chemical name</u> | LC₅₀(4hr) | LD₅₀ | |
|-------------------------------|-----------------------------|------------------------|-------------------------|
| | <u>inh, rat</u> | <u>(Oral, rat)</u> | <u>(Rabbit, dermal)</u> |
| Ammonium bifluoride | N/Av | 130 mg/kg | N/Av |
| Urea hydrochloride | N/Av | N/Av | N/Av |
| Diethylene glycol butyl ether | N/Av | 6560 mg/kg | 2764 mg/kg |
| Alcohols, C9-11, ethoxylated | N/Av | 1378 mg/kg | >2000 mg/kg |

11.2 Information on other Hazards

: Not applicable

11.2.1 Endocrine disrupting properties : Not applicable

11.2.2 Other hazards : Not applicable

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity : 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 |
| Ammonium bifluoride | 1341-49-7 | N/Av | N/Av | None. |
| Urea hydrochloride | 506-89-8 | N/Av | N/Av | None. |
| Diethylene glycol butyl ether | 112-34-5 | 1300 mg/L (Bluegill sunfish) | N/Av | None. |
| Alcohols, C9-11, ethoxylated | 68439-46-3 | 8.5 mg/L (Fathead minnow) | N/Av | None. |

| <u>Ingredients</u> | CAS No | Toxicity to Daphnia | | |
|-------------------------------|---------------|----------------------------|----------------------|-----------------|
| | | EC50 / 48h | NOEC / 21 day | M Factor |
| Ammonium bifluoride | 1341-49-7 | N/Av | N/Av | None. |
| Urea hydrochloride | 506-89-8 | N/Av | N/Av | |
| Diethylene glycol butyl ether | 112-34-5 | > 100 mg/L (Daphnia magna) | N/Av | None. |
| Alcohols, C9-11, ethoxylated | 68439-46-3 | 5.3 mg/L (Daphnia magna) | N/Av | None. |



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| <u>Ingredients</u> | <u>CAS No</u> | <u>Toxicity to Algae</u> | | |
|-------------------------------|---------------|-------------------------------|--------------------------|-----------------|
| | | <u>EC50 / 96h or 72h</u> | <u>NOEC / 96h or 72h</u> | <u>M Factor</u> |
| Ammonium bifluoride | 1341-49-7 | N/Av | N/Av | None. |
| Urea hydrochloride | 506-89-8 | N/Av | N/Av | None. |
| Diethylene glycol butyl ether | 112-34-5 | > 100 mg/L/96hr (Green algae) | ≥ 100 mg/L/96hr | None. |
| Alcohols, C9-11, ethoxylated | 68439-46-3 | N/Av | N/Av | None. |

12.2 Persistence and degradability

: No data is available on the product itself.

12.3 Bioaccumulation potential

: No data is available on the product itself.

Urea hydrochloride (CAS
506-89-8)

N/Av

N/Av

| <u>Components</u> | <u>Partition coefficient n-octanol/water (log Kow)</u> | <u>Bioconcentration factor (BCF)</u> |
|---|--|--------------------------------------|
| Ammonium bifluoride (CAS 1341-49-7) | -4.37 | completely dissociated in water |
| Diethylene glycol butyl ether (CAS 112-34-5) | 1.0 | no bioconcentration expected |
| Alcohols, C9-11, ethoxylated (CAS 68439-46-3) | 3.77-4.72 | N/Av |

12.4 Mobility in soil

: No data is available on the product itself.

12.5 Results of PBT and vPvB assessment

: This information is not available.

12.6 Endocrine disrupting properties

: No information available.

12.7 Other Adverse Environmental effects

: No data is available on the product itself.

12.8 Additional information

: No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Handling for Disposal : See Section 7 (Handling and Storage) for further details. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

Methods of Disposal : According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

SECTION 14. TRANSPORTATION INFORMATION



Parker Hannifin Corporation
Sporlan Division
206 Lange Drive
Washington, MO, U.S.A., 63090
Telephone: +001 636) 239 1111

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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 | UN1760 | Corrosive liquid, n.o.s. (urea hydrochloride) | 8 | III |  |
| ICAO/IATA Additional information | Refer to ICAO/IATA Packing Instruction | | | | |
| IMDG | UN1760 | CORROSIVE LIQUID, N.O.S. (Urea hydrochloride) | 8 | III |  |
| IMDG Additional information | Consult the IMDG regulations for exceptions. EmS No. F-A, S-B | | | | |
| ADR/RID | UN1760 | CORROSIVE LIQUID, N.O.S. (Urea hydrochloride) | 8 | III |  |
| EU ADR/RID Classification Code | C9 - Other corrosive substances: Liquid | | | | |
| EU ADR / RID Hazard Identification Number | 80 - corrosive or slightly corrosive substance | | | | |
| ADR/RID Additional information | May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass. | | | | |

14.5 Environmental hazards : The product is not classified as environmentally hazardous. See ECOLOGICAL INFORMATION, Section 12.

14.6 Special precautions for user

: None known or reported by the manufacturer.

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

: Not available.

SECTION 15. REGULATORY INFORMATION

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



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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.

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

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: Not applicable.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended Refer to restrictions found in REACH Annex XVII item 75. Refer to restrictions found in REACH Annex XVII item 55.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances: Not applicable.

Directive 94/33/EC on the protection of young people at work: (CAS 506-89-8), (CAS 1341-49-7), (CAS 68439-46-6)

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work: (CAS 506-89-8), (CAS 1341-49-7), (CAS 68439-46-6)

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.

Water contaminating class (Germany) 1-Water hazard class (Germany)

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

Preparation Date (dd/mm/yyyy)

: 01/10/2024

Regulation and Procedure :



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Based on expert judgement:
Skin irritation
Eye Damage
Specific target organ toxicity, single exposure

H-phrases (full-text)
H301 - Toxic if swallowed.
H314 - Causes severe skin burns and eye damage.
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H413 - May cause long lasting harmful effects to aquatic life.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

| | |
|---|--|
| <u>Prepared for:</u> Parker Hannifin Corporation - Sporlan Division 206 Lange Drive Washington, MO 63090 USA +001 (636) 239-1111 Direct all enquiries to: Parker Hannifin Corp. - Sporlan Division. |  |
| <u>Prepared by:</u> ICC The Compliance Center Inc. http://www.thecompliancecenter.com |  |

DISCLAIMER

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