

# SAFETY DATA SHEET

## ActiveEco SX Descaler

Infosafe No.: MTMA8  
ISSUED Date: 10/05/2017  
Issued by: Envirofluid

### 1. IDENTIFICATION

**GHS Product Identifier**

ActiveEco SX Descaler

**Product Code**

AESXD-5, AESXD-15, AESXD200, AESXDBB

**Company Name**

Envirofluid

**Address**

39 Coghlan Road Warrnambool  
VICTORIA 3280 Australia

**Telephone/Fax Number**

Tel: 1800 777 580 (8am - 5pm AEST)  
Fax: 1300 777 580

**Emergency phone number**

1800638556 (24h) / +61 3 5564 6455

**E-mail Address**

info@envirofluid.com

**Recommended use of the chemical and restrictions on use**

High performance scale remover, containing organic salts blended with biodegradable wetting agents. ActiveEco SX Descaler is based on a unique acid-replacement technology, and although low in pH, it does not contain traditional acids such as Hydrofluoric, Hydrochloric, Phosphoric, Sulphuric, Sulphamic, Nitric, Citric, Oxalic or Glycolic Acids. The organic salt acts like an acid in the cleaning process but has none of the adverse characteristics associated with acid cleaners, making it safer and easier to use.

**Additional Information**

Biodegradable and phosphate free and does not contribute to the eutrophication of waterways. The product has low COD and BOD levels. Is non fuming.

### 2. HAZARD IDENTIFICATION

**GHS classification of the substance/mixture**

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Corrosive to Metals: Category 1

Eye Damage/Irritation: Category 1

Skin Corrosion/Irritation: Category 1A



STOT Single Exposure: Category 3 (respiratory tract irritation)

**Signal Word (s)**

DANGER

**Hazard Statement (s)**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

**Pictogram (s)**

Corrosion, Exclamation mark



**Precautionary statement – Prevention**

P234 Keep only in original container.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash contaminated skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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

**Precautionary statement – Response**

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

**Precautionary statement – Storage**

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P406 Store in corrosive resistant/ container with a resistant inner liner.

**Precautionary statement – Disposal**

P501 Dispose of contents/container to an approved waste disposal plant.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Ingredients**

Name	CAS	Proportion
Urea hydrochloride	506-89-8	>60-100 %
2-Butoxyethanol	111-76-2	0-<10 %
Ingredients determined not to be hazardous		Balance



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## 4. FIRST-AID MEASURES

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### Inhalation

If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

### Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

### Skin

Remove all contaminated clothing immediately. Wash gently and thoroughly with water and non-abrasive soap for 15 minutes. Ensure contaminated clothing is washed before re-use or discard. Seek immediate medical attention.

### Eye contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention.

### First Aid Facilities

Eyewash, safety shower and normal washroom facilities.

### Advice to Doctor

Treat symptomatically.

### Other Information

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

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## 5. FIRE-FIGHTING MEASURES

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### Suitable Extinguishing Media

Dry chemical, foam or water fog.

### Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including oxides of nitrogen, chlorides, carbon monoxide and carbon dioxide.

### Specific Hazards Arising From The Chemical

This product is non-combustible.

### Hazchem Code

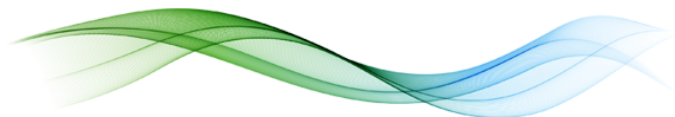
2X

### Decomposition Temperature

Not available

### Precautions in connection with Fire

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.



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## 6. ACCIDENTAL RELEASE MEASURES

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### Emergency Procedures

Evacuate all unprotected personnel. Do not allow contact with skin and eyes. Do not breathe mist/vapour. It is essential to wear self-contained breathing apparatus (S.C.B.A) and full personal protective equipment and clothing to prevent exposure. Avoid exposure to spillage by collecting the material using vacuum and transfer into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

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## 7. HANDLING AND STORAGE

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### Precautions for Safe Handling

Corrosive liquid. Attacks skin and eyes. Causes burns. Avoid breathing in vapours, mist or fumes. Wear suitable protective clothing, gloves and eye/face protection when mixing and using. Use in designated areas with adequate ventilation. Keep containers tightly closed. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.

### Conditions for safe storage, including any incompatibilities

Corrosive liquid. Store in a cool dry well-ventilated area. Keep out of reach of children. Store away from oxidising agents and bases/acids. Store away from incompatible materials. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Provide a catch-tank in a bunded area. Store in original packages as approved by manufacturer. Protect from physical damage. Ensure that storage conditions comply with applicable local and national regulations. For information on the design of the storeroom, reference should be made to Australian Standard AS 3780 The storage and handling of corrosive substances. Reference should also be made to all applicable local and national regulations.

### Corrosiveness

Mildly corrosive to carbon steel, galvanized metal and aluminium.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Occupational exposure limit values

No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:

2-Butoxyethanol:

TWA: 20ppm, 96.9 mg/m<sup>3</sup>

STEL: 50ppm, 242 mg/m<sup>3</sup>

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

### Biological Limit Values

Name: 2-Butoxyethanol

Determinant: Butoxyacetic acid (BAA) in urine

Value: 200mg/g creatinine



Sampling time: End of shift

Source: American Conference of Industrial Hygienists (ACGIH)

#### **Appropriate Engineering Controls**

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn.

#### **Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

#### **Eye Protection**

Safety glasses with full face shield should be used. Eye protection devices should conform to relevant regulations.

Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

#### **Hand Protection**

Wear gloves of impervious material such as NBR or vinyl. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

#### **Body Protection**

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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#### **Form**

Liquid

#### **Appearance**

Tan liquid

#### **Colour**

Tan

#### **Odour**

Mild

#### **Decomposition Temperature**

Not available

#### **Melting Point**

Not available

#### **Boiling Point**

Not available

#### **Solubility in Water**

Completely soluble



**Specific Gravity**

1.2

**pH**

<1

**Vapour Pressure**

Not available

**Vapour Density (Air=1)**

Not available

**Evaporation Rate**

Not available

**Odour Threshold**

Not available

**Viscosity**

Not available

**Partition Coefficient: n-octanol/water**

Not available

**Flash Point**

Not applicable

**Flammability**

Not combustible

**Auto-Ignition Temperature**

Not applicable

**Flammable Limits - Lower**

Not applicable

**Flammable Limits - Upper**

Not applicable

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## 10. STABILITY AND REACTIVITY

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**Chemical Stability**

Stable under normal conditions of storage and handling.

**Reactivity and Stability**

Reacts with incompatible materials.

**Conditions to Avoid**

Extremes of temperature and direct sunlight.

**Incompatible materials**

Strong alkalis and oxidizing agents.

**Hazardous Decomposition Products**

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including oxides of nitrogen, chlorides, carbon monoxide and carbon dioxide.

**Possibility of hazardous reactions**

Not available

**Hazardous Polymerization**

Will not occur.



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## 11. TOXICOLOGICAL INFORMATION

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### **Toxicology Information**

No toxicity data available for this material.

### **Ingestion**

Ingestion of this product will cause nausea, vomiting, abdominal pain and chemical burns to the mouth, throat and stomach.

### **Inhalation**

Inhalation of mist or vapour will result in respiratory irritation and possible harmful corrosive effects including burns, lesions of the nasal septum, pulmonary edema, emphysema and scarring of tissue. Can cause coughing, discomfort, breathing difficulty and shortness of breath

### **Skin**

Causes burns. Corrosive to the skin. Skin contact can cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction.

### **Eye**

Causes serious eye damage. Eye contact will cause stinging, blurring, tearing, severe pain and possible burns, necrosis, permanent damage and blindness.

### **Respiratory sensitisation**

Not expected to be a respiratory sensitiser.

### **Skin Sensitisation**

Not expected to be a skin sensitiser.

### **Germ cell mutagenicity**

Not considered to be a mutagenic hazard.

### **Carcinogenicity**

Not considered to be a carcinogenic hazard.

2-Butoxyethanol is listed as a Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC).

### **Reproductive Toxicity**

Not considered to be toxic to reproduction.

### **STOT-single exposure**

May cause respiratory irritation.

### **STOT-repeated exposure**

Not expected to cause toxicity to a specific target organ.

### **Aspiration Hazard**

Not expected to be an aspiration hazard.

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## 12. ECOLOGICAL INFORMATION

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### **Ecotoxicity**

No ecological data available for this material.

### **Persistence and degradability**

Not available



**Mobility**

Completely soluble in water.

**Bioaccumulative Potential**

Not available

**Other Adverse Effects**

Not available

**Environmental Protection**

Do not discharge this material into waterways, drains and sewers.

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## 13. DISPOSAL CONSIDERATIONS

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**Disposal considerations**

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

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## 14. TRANSPORT INFORMATION

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**Transport Information**

This material is classified as a Class 8 Corrosive Substances Dangerous Goods

Class 8 Dangerous Goods are incompatible in a placard load with any of the following:

- Class 1: Explosives
- Division 4.3: Dangerous when wet Substances
- Division 5.1: Oxidising substances
- Division 5.2: Organic peroxides
- Class 6, Toxic or Infectious Substances, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids

Class 7: Radioactive materials unless specifically exempted

and are incompatible with food and food packaging in any quantity.

Strong acids must not be loaded in the same freight container or on the same vehicle with strong alkalis. Packing Group I and II acids and alkalis should be considered as strong.

**Marine Transport (IMO/IMDG):**

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Class/Division: 8

UN No: 1760

Proper Shipping Name: CORROSIVE LIQUID, N.O.S.(Contains Urea hydrochloride)

Packing Group: I

EMS : F-A, S-B

Special Provisions: 274

**Air Transport (ICAO/IATA):**

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Class/Division: 8

UN No: 1760

Proper Shipping Name: Corrosive liquid, n.o.s. (Contains Urea hydrochloride)

Packing Group: I

Packaging Instructions (passenger & cargo): 850





Packaging Instructions (cargo only): 854

Hazard Label: Corrosive

Special Provisions: A3, A803

**U.N. Number**

1760

**UN proper shipping name**

CORROSIVE LIQUID, N.O.S.(Contains Urea hydrochloride)

**Transport hazard class(es)**

8

**Packing Group**

I

**Hazchem Code**

2X

**Special Precautions for User**

Not available

**IERG Number**

37

**IMDG Marine pollutant**

No

**Transport in Bulk**

Not available

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## 15. REGULATORY INFORMATION

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**Regulatory information**

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of chemicals (GHS) including Work, Health and Safety regulations, Australia.

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Poisons Schedule**

Not Scheduled

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## 16. OTHER INFORMATION

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**Date of preparation or last revision of SDS**

SDS reviewed: May 2017

Supersedes: January 2014

**References**

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of classification and labelling of chemicals.



## END OF SDS

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