



# Safety Data Sheet

Conforms to EU Directive 91/155

## TEC4 Ad-Blu Clean & Protect

### 1) IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

**1.1 Product Identifier:** TEC4 Ad – Blu Clean & Protect

**1.2 Relevant identified uses:** Treatment for Ad – Blu Fluid

**1.3 Details of the supplier of the Safety Data Sheet:**

Tec4 Lubricants Ltd  
Unit 6 Millennium Way  
S41 8ND Chesterfield – United Kingdom  
Phone.: +44 1246 452 388  
[info@tec-4.co.uk](mailto:info@tec-4.co.uk)  
[www.tec-4.co.uk](http://www.tec-4.co.uk)

**1.4 Emergency telephone number:** Emergency telephone number Europe: 112

### 2) HAZARDOUS IDENTIFICATION

**RISK PHRASES:** R22, R36/37/38, R42/43

**SAFETY PHRASES:** S23, S24/25, S46

**EMERGENCY OVERVIEW**

**IMMEDIATE CONCERNS**

**Warning!**

**Causes Eye and Skin Irritation**

**Harmful if swallowed.**

**POTENTIAL HEALTH EFFECTS**

**EYES:** Severely irritating.

**SKIN:** May cause moderate irritation to skin. Repeated exposure may cause skin dryness or cracking.

**INGESTION:** Based on testing similar products, liquid is considered to be moderately toxic by ingestion.

**INHALATION:** Not expected to be a relevant route of exposure. However, high vapor or aerosol mist concentrations may be irritating to the nose, throat, and upper respiratory tract.

**SIGNS AND SYMPTOMS OF OVER EXPOSURE**

Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/cracked appearance. Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters.

**MEDICAL CONDITIONS AGGRAVATED:**

Preexisting skin and eye disorders may be aggravated by exposure to this product.



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### 3) COMPOSITION / INGREDIENT INFORMATION

Identification:

CAS No. 68439 -46- 3

Concentration: 60 - 80%

Synonyms C9 – C11 Alcohol Polyglycol Ether

Xi – IRRITANT



- Irritant–irritates the skin or eyes.
- Skin sensitizer–which is an allergic response following skin contact.

### 4) FIRST AID MEASURES

**EYES:** Immediately flush your eyes with large amounts of water for at least 15 minutes while holding eyelids open. Get prompt medical attention.

**SKIN:** Immediately flush your eyes with large amounts of water for at least 15 minutes; use soap if available. Remove contaminated clothing, including shoes, after flushing has begun. Get prompt medical attention. Do not reuse clothing or shoes until thoroughly cleaned.

**INGESTION:** Do not give liquids if the victim is unconscious or very drowsy. Otherwise, give no more than 2 glasses of water and induce vomiting by giving 30cc (2 Tablespoons) syrup of IPECAC\*. IF IPECAC is not available, give two glasses of water and induce vomiting by touching finger to back of victim's throat. Keep victim's head below hips while vomiting. Get Medical Attention.

**INHALATION:** Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

**NOTES TO PHYSICIAN:** If the victim is a child, give no more than 1 glass of water and 15 cc (1 Tablespoon) syrup of IPECAC. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur Before emesis, gastric lavage should be considered following intubation with a cuffed endotracheal tube.



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### 5) FIRE FIGHTING MEASURES

**Flash point and method:** > 150°C Pensky Marten CC

**Flammable limits:** Not applicable

**EXTINGUISHING MEDIA:**

Use alcohol type foam, universal foam, dry chemical, carbon dioxide or water spray to extinguish fire.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon Monoxide, Carbon Dioxide.

**FIRE FIGHTING PROCEDURES:**

Use water spray to cool fire exposed surfaces and to protect personnel. Isolate "fuel" supply from fire.

**FIRE EXPLOSION:**

Low Hazard, liquid can burn upon heating to temperatures at or above the flashpoint. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

Empty drums should be completely drained, properly bunged and promptly returned to drum reconditioner, or properly disposed of.

**SENSITIVITY TO STATIC DISCHARGE:** Unknown, use proper grounding procedure.



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### 6) ACCIDENTAL RELEASE MEASURES

**SMALL SPILLS:** For small spills, take up material with an absorbent such as clay or sand and dispose of properly. Flush area with water to remove trace residue.

**LARGE SPILLS:** Wear respirators and protective clothing as appropriate. Shut off source of leak if it is safe to do so. Dyke and contain spilled material. Remove with vacuum trucks or pump to storage/savage containers. Soak up residue with absorbents such as clay, sand or other suitable material. Flush area with water to remove trace residues. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

**ENVIROMENTAL PRECAUTIONS:**

**WATER SPILLS:** Remove from surface by skimming or with suitable adsorbents. If allowed by local authorities. And environmental agencies, sinking and/or suitable dispersants may be used in non-confined waters. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

**LAND SPILLS:** Eliminate sources of ignition. Prevent additional discharge of material, if possible, to do so without hazard. For small spills implement cleanup procedures; for large spills implement cleanup procedures and, if in public area, keep public away and advise authorities.

### 7) HANDLING & STORAGE

**GENERAL PROCEDURES:** Keep containers closed and store between 20 and 35 Deg C. Handle and open container with care. Store in a cool, well vented location. Place away from incompatible materials. Do NOT handle or store near an open flame or heat or other sources of ignition. Protect material from direct sunlight. It is not known if this material is a static accumulator. Therefore, use proper grounding procedures. Do NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. Do NOT reuse empty containers without commercial cleaning or reconditioning.

**SPECIAL SENSITIVITY:** It is recommended to store this product with a nitrogen blanket to minimize the potential for ethoxylate oxidation. Overheating of ethoxylate stored with air should be avoided. When ethoxylate is vigorously mixed in the presence of air or oxygen at temperatures > 50 °C, it can undergo exothermic oxidative degradation. Such a reaction will cause unwanted discoloring of this product.

**ELECTROSTATIC ACCUMULATION HAZARD:** Unknown, use proper grounding procedure.

**SUITABLE MATERIALS/COATINGS:** Stainless steel, epoxy resins, polyester

**UNSUITABLE MATERIALS/COATINGS:** Aluminum, copper, copper alloys

### 8) EXPOSURE CONTROLS

**ENGINEERING CONTROLS:**

Ventilation should be provided to control worker exposure and prevent health risk.

**PERSONAL PROTECTION:**

Always take appropriate measures to protect personnel from over-exposure to chemicals.



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### 9) PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid
<b>Odor:</b>	Mild odour
<b>Appearance:</b>	Clear light Blue liquid
<b>Vapor Pressure:</b>	<0.10 mmHg at 100°F
<b>Boiling Point:</b>	>450° F
<b>Pour Point:</b>	43° F
<b>Melting Point:</b>	23-59° F
<b>Viscosity:</b>	39 cps at 100° F (38° C)
<b>Specific Gravity:</b>	0.984 g/ml at 77°F (25 C)
<b>VOC Content:</b>	~9.5% EPA Method 24
<b>Water solubility:</b>	Completely soluble, may form gel

### 10) STABILITY AND REACTIVITY

<b>STABLE:</b>	Yes
<b>HAZARDOUS POLYMERIZATION:</b>	No
<b>STABILITY:</b>	Not Applicable
<b>POLYMERIZATION:</b>	Not Applicable

#### CONDITIONS TO AVOID:

Oxidation of alcohol ethoxylates may occur under certain conditions. Avoid overheating (temperatures > 125 °F) especially when vigorously mixed with air. See special precautions.

#### HAZARDOUS DECOMPOSITION:

Carbon monoxide and unidentified organic compounds may be formed during combustion.

#### INCOMPATIBLE MATERIALS

Strong Acids, oxidizing agents, copper, copper alloys, aluminum

### 11) TOXICOLOGICAL INFORMATION

This product is expected to have the following toxicity based on comparison to similar products.

<b>Acute Oral Toxicity:</b>	Moderately toxic: LD50 1.4 mg/kg, Rat
<b>Acute Dermal Toxicity:</b>	Low toxicity: LD50 >5000 mg/kg, Rat
<b>Sensitization:</b>	Not a skin sensitizer

### 12) ECOLOGICAL INFORMATION

#### ECOTOXICOLOGICAL INFORMATION:

96 hr. fathead minnow static acute LC 50: 8.5 mg/L  
48 hr. daphnia static acute LC 50: 5.3 mg/L

#### CHEMICAL FATE INFORMATION

This product was readily biodegradable in an OECD 301 F Respirometer test.  
88% oxygen removal in 28 days  
100% DOC removal



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### 13) DISPOSAL CONSIDERATION

**DISPOSAL METHOD:**

Dispose of this product in accordance with federal, state and local regulations

### 14) TRANSPORT INFORMATION

	ADG	IMDG	IATA
UN NUMBER	Not regulated	Not regulated	Not regulated
UN Proper shipping name	_____	_____	_____
Transport Hazard Class(es)	_____	_____	_____
Packing Group	_____	_____	_____
Environmental Hazards	No	No	No

### 15) REGULATORY INFORMATION

**LABEL FOR SUPPLY:** Xi - IRRITANT.

**RISK PHRASES:** R36/37/38 - IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

R22 - POTENTIALLY HARMFUL IF SWALLOWED.

R42/43 - MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.

**SAFETY PHRASES:** S24/25 - AVOID CONTACT WITH SKIN AND EYES.  
S46 - IF SWALLOWED, SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.

S23 - AVOID BREATHING SPRAY OR DROPLETS OVER A LONG PERIOD.



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### **16) OTHER INFORMATION**

The above information is believed to be correct but does not purport to be all inclusive and should be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product regarding appropriate safety precautions. It doesnot represent any guarantee of the properties of the product.