

U. S. Corrosion Technologies, LLC  
P. O. Box 551625  
Dallas, Texas 75355-1625  
(972) 271-7361 Fax: (972) 278-9721

# Xtreme Clean™

## EU Safety Data Sheet

### Section 1. Identification of the substance/mixture and the company/ undertaking

#### 1.1 Product Identifier

**Product Name:** Xtreme Clean™  
**Product Code:** 24001, 24002, 24103, 24004, 24005, 24108  
**Synonyms:** Not applicable  
**SDS Number:** Not applicable  
**Issue Date:** 7/5/2017  
**Version Number:** 1.0  
**Revision Date:** Not applicable

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

**Identified Uses:** Cleaner / Degreaser  
**Uses advised against:** Other uses are not recommended unless an assessment is completed, prior to commencement of that use, which demonstrates that the use will be controlled.

#### 1.3 Details of the supplier of the safety data sheet

**Manufacturer:** U.S. Corrosion Technologies, LLC  
2638 National Drive, Garland, TX 75041  
**Telephone:** 972-271-7361  
**Fax:** 972-278-9721  
**Email:** [info@corrosionx.com](mailto:info@corrosionx.com)  
**Website:** [www.corrosionx.com](http://www.corrosionx.com)

#### 1.4 Emergency Telephone Number:

For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), 24 hour emergency telephone, call CHEMTREC® at 1-800-424-9300 (US, Canada, Puerto Rico); 1-703-527-3887 (elsewhere).  
UK – National Poisons Information Service - NHS Direct England & Wales 0845 46 47/NHS 24 Scotland 08454 24 24 24 (UK only)  
Spain – Servicio De Informacion Toxicologica - +34 917 68 98 00  
Portugal – Instituto Nacional de Emergência Médica (INEM) - 808 250 143 (Portugal only), +351 21 330 3284  
Netherlands – National Poisons Information Centre (NVIC) 030-274 8888  
Norway – Norwegian Poison Information Centre (NIPH) 22 59 13 00  
Sweden – Swedish Poisons Information Centre - 010-456 6700 (International) 112 (National)  
Finland – HUS Poison Information Centre - 09 87 10023  
France – Institut National De Recherche Et De Securite (INRS) +33 1 40 44 30 00  
Italy – Istituto Superiore di Sanità (ISS) +39 0649906140 and +39 0649902064

### Section 2. Hazards identification

#### 2.1 Classification of the Substance or Mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 [CLP] as amended

##### Hazard Summary

##### Health Hazard(s)

Skin Irritation	Category 2	Causes skin irritation. (H315)
Eye Irritation	Category 2B	Causes serious eye irritation. (H319)
Acute Toxicity - Oral	Category 4	Harmful if swallowed. (H302)
STOT-SE	Category 3	May cause respiratory irritation. (H335)

##### Physical Hazard(s)

None

##### Environmental Hazard(s)

None

##### Specific Hazard(s)

None

**Main symptoms:** May cause irritation of the mouth, throat and gastrointestinal tract with symptoms including upset stomach and diarrhoea. May cause irritation to the respiratory system with symptoms including coughing and sneezing. Causes skin irritation seen as drying, cracking, itching and redness. Causes serious eye irritation with symptoms including lacrimation (tears) and a burning sensation.

#### 2.2 Label Elements

##### Labelling according to Regulation (EC) No 1272/2008 [CLP] as amended

**Signal Word:** WARNING



##### Hazard Pictograms:

**Hazard Statements** Causes skin and serious eye irritation. (H315 + H319) Harmful if swallowed. (H302) May cause respiratory irritation. (H335)

##### Precautionary Statements

Keep out of reach of children. (P102) If medical advice is needed, have product container or label at hand. (P101) Avoid breathing mist, spray or vapours. (P261) Use only outdoors or in a well-ventilated area. (P271) Wear protective gloves and eye protection. (P280) Wash thoroughly after handling. (P264) Dispose of contents and container in accordance with applicable regulations. (P501)

##### Supplemental label information:

Contains 2-Butoxyethanol and sodium metasilicate.

#### 2.3 Other hazards

None

## Section 3. Composition / information on ingredients

### 3.2 Mixtures

Chemical Name	EC Number	REACH Reg. No.	CAS Number	Percent by Wt.	CLP Classification
2-Butoxyethanol	203-905-0	01-2119475108-36	111-76-2	1-5	H302 Acute Tox. Or. Cat. 4; H312 Acute Tox. Dermal Cat. 4; H332 Acute Tox. Inhl. Cat. 4; H315, Skin Irr. Cat. 2; H319 Eye Irr. Cat. 2
Sodium Metasilicate	229-912-9	Not established	6834-92-0	1-5	H302 Acute Tox. Or. Cat. 4; H314 Skin Corr. Cat. 1B; H318 Eye Dam. Cat. 1, H335: STOT SE Cat. 3, H290 Met. Corr. Cat. 1
Ethoxylated alcohol phosphate	Not established	Not established	Trade Secret	1-5	H302 Acute Tox. Or. Cat. 4; H315 Skin Irr. Cat. 2; H319 Eye Irr. Cat. 2

**Additional information:** For full text of H-statements: see SECTION 16.

## Section 4. First aid measures

### 4.1 Description of First Aid Measures

**General Advice:** Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

**Inhalation:** If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER if you feel unwell.

**Skin Contact:** Remove contaminated clothing. If on skin: (P302) Wash with plenty of water. (P352) If skin irritation or rash occurs: Get medical advice. (P333+313)

**Eye Contact:** If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so.

Continue rinsing (P305 + P351 + P338) If eye irritation persists: get medical attention. (P337 + P313)

**Ingestion:** If swallowed: Rinse mouth (P330) Call a POISON CENTER if you feel unwell. (P301+P312)

### 4.2 Most Important Symptoms and Effects both Acute and Delayed

**Symptoms:** Causes skin and serious eye irritation. May cause nausea, vomiting and diarrhoea. May cause respiratory irritation seen as coughing and sneezing.

### 4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

**Notes to Physician:** Provide general supportive measures and treat symptomatically. Keep exposed person under observation.

## Section 5. Fire-fighting measures

**General Fire Hazards:** Move containers from fire area if this can be done without risk.

**5.1 Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances / surrounding environment.

**Suitable extinguishing media:** Carbon Dioxide, Dry Chemical, Water Spray and Regular Foam

**Unsuitable extinguishing media:** Alcohol, Alcohol based solutions

**5.2 Special Hazards Arising from the Substance or Mixture:** Flammable hydrogen gas may be produced on contact with tin, lead and zinc. Combustion can generate carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides and phosphorus oxides.

### 5.3 Advice for firefighters

**Special protective equipment for firefighters:** None known.

**Special firefighting procedures:** None known.

## Section 6. Accidental release measures

### 6.1 Personal Precautions / Protective Equipment / Emergency Procedures

**For non-emergency personnel:** Avoid contact with spilled material. Immediately contact emergency personnel. Keep unnecessary people away.

**For emergency responders:** Caution should be exercised regarding personnel safety and exposure to the released product. Avoid contact with spilled material. Use caution as spills may be slippery. Ensure adequate ventilation. Use personal protective equipment.

**6.2 Environmental Precautions:** Avoid release to the environment. If product is released to the environment, take immediate steps to stop and contain release if it is safe to do so. Isolate hazard area and deny entry. See section 12, Ecological information

### 6.3 Methods and materials for containment and cleaning up

For small spills: Do not touch or walk through spilled material. Collect absorbed material. Never return unused material to the original container. Rinse surface thoroughly.

For land spills: Do not touch or walk through spilled material. Stop leak when safe to do so. Prevent entry into waterways or sewers.

For large spills, dike far ahead of liquid spill for later disposal. Pick up using pumps or suitable absorbent. Never return unused material to the original container. Rinse surface thoroughly.

For water spills: Stop leak when safe to do so. Warn surrounding and downstream vessels of potential hazards. Contact appropriate authorities and local experts for further advice.

**6.4 Reference to other sections:** See Section 8, Exposure Controls/Personal Protection and Section 13, Disposal Considerations.

## Section 7. Handling and storage

### 7.1 Precautions for Safe Handling

**Protective measures:** Read label before use. (P103) Avoid contact with eyes, skin and clothing. Wear protective gloves and eye protection. (P280) Wash hands thoroughly after handling. (P264) Avoid breathing mist, spray or vapours. (P261) Observe good industrial hygiene practices. Do not to eat, drink and smoke when using this product. (P270) Wash hands after use and remove contaminated clothing and protective equipment before entering eating areas. Follow all SDS/label precautions.

Measures to prevent fire: Prevent contact with reactive metals and use with adequate ventilation.

**Maximum Handling Temperature:** 60°C

### 7.2 Conditions for Safe Storage, Including any Incompatibilities

**Storage conditions to avoid:** Store in original closed container. Store away from incompatible materials (see Section 10: Stability and Reactivity). Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.

**Maximum Storage Temperature:** 45°C

**7.3 Specific End Use(s):** End uses are listed in an attached exposure scenario when one is required.

## Section 8. Exposure controls / personal protection

### 8.1 Control Parameters

#### Occupational exposure limit values

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Component	ACGIH		OSHA		STEL ppm	STEL mg/m3
	TLV ppm	TLV mg/m3	PEL ppm	PEL mg/m3		
2-Butoxyethanol	20 (Skin)	Not Est.	50	246	Not Est.	Not Est.
Sodium Metasilicate	Not Est.	2**	Not Est.	Not Est.	Not Est.	Not Est.
Ethoxylated alcohol phosphate	Not Est.	Not Est.	Not Est.	Not Est.	Not Est.	Not Est.

\*\*Manufacturers recommended exposure limit. Recommended by analogy with sodium hydroxide (UK EH40)

**Biological limit values:** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures:** Information about recommended monitoring procedures can be obtained from relevant country authorities.

#### Derived no-effect level (DNEL):

Material	Type	Route	Value	Form
2-Butoxyethanol	Workers / Long-term systemic effects	Inhalation	98 mg/m3	Aerosol
	Workers / Acute systemic effects	Inhalation	1091 mg/m3	Aerosol
	Workers / Acute local effects	Inhalation	246 mg/m3	Aerosol
	Workers / Long-term systemic effects	Skin contact	125 mg/kg bw/d	
	Workers / Acute systemic effects	Skin Contact	89 mg/kg bw/d	
	Consumers / Long-term systemic effects	Inhalation	59 mg/m3	
	Consumers / Acute systemic effects	Inhalation	426 mg/m3	
	Consumers / Acute systemic effects	Inhalation	147 mg/m3	
	Consumers / Long-term systemic effects	Skin contact	75 mg/kg bw/d	
	Consumers / Acute systemic effects	Skin contact	89 mg/kg bw/d	
	Consumers / Long-term systemic effects	Ingestion	6,3 mg/kg bw/d	
	Consumers / Acute systemic effects	Ingestion	26,7 mg/kg bw/d	

**Predicted no effect concentrations (PNECs):** Not Established

### 8.2 Exposure Controls

**Appropriate engineering controls:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower should be available when handling this product.

#### Individual protection measures, such as personal protective equipment

**General information:** Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye / Face Protection:** Wear eye protection approved to EU standard EN166. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**Respiratory Protection:** None required under normal use conditions. In case of insufficient ventilation, wear suitable respiratory equipment. An air purifying respirator with an appropriate cartridge or canister, such as an organic vapor cartridge may be used in circumstances where airborne concentrations may exceed exposure limits. CEN EN-136, EN-140 and EN-405 provide recommendations for respirator masks. CEN EN-149 and 143 provide recommendations for filters.

#### Skin Protection

**Hand Protection:** Users should wear impermeable gloves such as neoprene or nitrile rubber gloves ((tested to CEN EN-374).

Glove suitability for a job must be determined by the user for specific use conditions. Any glove information provided is based on published literature and manufacturer data.

The type of gloves to consider for use with this material is: Nitrile: permeation rate: > 480 minutes, thickness: 0,4 mm Camatril® 730

**Other Protection:** Wear appropriate chemical resistant clothing. Where forearm protection is required, wear gauntlets, gloves with an extended cuff covering part of the forearm. Use of an impervious apron is recommended.

**Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Thermal hazards:** Not applicable.

**Environmental exposure controls:** Prevent entry into waterways. Environmental manager must be informed of all major releases.

## Section 9. Physical and chemical properties

### 9.1 Information Basic Physical and Chemical Properties

<b>Appearance:</b>	Transparent	<b>Odour:</b>	Fresh scent
<b>Physical State:</b>	Liquid	<b>Odour threshold:</b>	Not available
<b>Form:</b>	Non-viscous	<b>pH:</b>	Not applicable
<b>Colour:</b>	Blue	<b>Melting/Freezing Point:</b>	32°F / 0°C
		<b>Initial Boiling Point/ and Boiling Range:</b>	212°F / 100°C
		<b>Flash Point:</b>	Non-flammable
		<b>Method:</b>	Not applicable

<b>Evaporation Rate (BuAc= 1):</b>	<1	<b>Partition Coefficient (n-Octanol/Water):</b>	
<b>Flammability (solid, gas):</b>	Hydrogen	2-Butoxyethanol	0.81
<b>Upper/Lower flammability or explosive limits</b>		<b>Autoignition Temperature:</b>	Not established
<b>Flammability Limit, Lower vol %:</b>	4	<b>Decomposition Temperature:</b>	Not established
<b>Flammability Limit, Upper vol %:</b>	75	<b>Viscosity, cSt @ 40°C:</b>	Not established
<b>Vapour Density (Air=1):</b>	<1	<b>cSt @ 100°C:</b>	Not established
<b>Vapour Pressure, mmHg @23°C:</b>	21.1 (calc.)	<b>Explosive properties:</b>	None
<b>Relative Density @15.6°C (pounds/gallon)</b>	8.5	<b>Oxidising properties:</b>	None
<b>Volatile by volume (%):</b>	92	<b>9.2 Other Information</b>	
<b>VOC Content g/l (%):</b>	50 (5)	<b>Specific Gravity @15.6°C:</b>	1.02
<b>Non-volatile by Volume (%):</b>	8	<b>Chemical family:</b>	Aqueous
<b>Solubility(ies)</b>		<b>Dissociation constant:</b>	Not applicable
<b>Solubility (water):</b>	Complete	<b>Dielectric Strength (KV):</b>	Not applicable
<b>Solubility (other):</b>	Not Established		

## Section 10. Stability and reactivity

**10.1 Reactivity:** The product is stable and non-reactive under normal conditions of use, storage and transport.

**10.2 Chemical Stability:** Stable under normal conditions.

**10.3 Possibility of Hazardous Reactions:** Will not occur.

**10.4 Conditions to Avoid:** Avoid unventilated areas. Keep container closed when not in use.

**10.5 Incompatible Materials:** Reactive metals, glass, oxidizing agents and acids. May react with ammonium salt solutions resulting in evolution of ammonia gas. Carbon monoxide gas may be produced on contact with reducing sugars.

**10.6 Hazardous Decomposition Products:** Does not decompose when used for intended uses. No known hazardous decomposition products.

## Section 11. Toxicological information

### General information

Exposure to this material may cause adverse effects or damage to the following organs or organ systems: liver, kidneys, lymphatic system, skin, blood, eyes, CNS and respiratory system.

### Information on likely routes of exposure

**Ingestion:** May cause irritation of the mouth, throat and gastrointestinal tract. Symptoms may include upset stomach and diarrhoea.

**Inhalation:** Under normal conditions, inhalation is not expected to be a problem. However, respiratory tract irritation may occur if exposed to mists, spray or concentrated vapors.

**Skin contact:** Causes skin irritation. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, oedema, drying and cracking of the skin.

**Eye contact:** Causes serious but transient irritation, lacrimation (tears) and a burning sensation in the eyes.

### 11.1 Information on Toxicological Effects

#### Acute Toxicity

#### Product

**Acute Toxicity - Oral:** Classified based on conclusive data.

**Acute Toxicity - Dermal:** Not classified: conclusive data do not meet classification criteria.

**Acute Toxicity - Inhalation:** Not classified: conclusive data do not meet classification criteria.

**Skin Corrosion/Irritation:** Classification: Irritating

**Serious Eye Damage/Eye Irritation:** Classification: Serious irritation

**Respiratory sensitisation:** Not classified: conclusive data do not meet classification criteria.

**Skin sensitisation:** Not classified: conclusive data do not meet classification criteria.

**Germ cell mutagenicity:** Not classified: conclusive data do not meet classification criteria.

**Carcinogenicity:** Not classified: conclusive data do not meet classification criteria.

**Reproductive toxicity:** Not classified: conclusive data do not meet classification criteria.

**Developmental effects:** Not classified: conclusive data do not meet classification criteria.

**Fertility - EU category:** Not classified: conclusive data do not meet classification criteria.

**Specific Target Organ Toxicity - Single Exposure:** If material is misted, sprayed or if vapors concentrated, exposure may cause irritation of mucous membranes and the upper respiratory tract.

**Specific Target organ toxicity - Repeated Exposure:** Not classified.

**Aspiration Hazard:** Not classified.

#### 2-butoxyethanol

**Acute Toxicity - Oral:** LD50 (Rabbit): 1.414 mg/kg (OECD Test 401) Classified based on classification criteria.

**Acute Toxicity - Dermal:** Classification based on Annex VI of regulation 1272/2008/EC.

**Acute Toxicity - Inhalation:** Classification based on Annex VI of regulation 1272/2008/EC.

**Skin Corrosion/Irritation:** Irritating, Rabbit, EEC 92/69, B. 4

**Serious Eye Damage/Eye Irritation:** Irritating (Read across): Rabbit, 24 hr, OECD Test 405

**Respiratory sensitisation:** Due to partial or complete lack of data the classification is not possible.

**Skin sensitisation:** Non-sensitising; Maximisation Test, Dermal, Guinea Pig, OECD Test 408

**Germ cell mutagenicity:** Not classified: conclusive data do not meet classification criteria.

**Carcinogenicity:** ACGIH A3 IARC Group 3; Not classifiable as to its carcinogenicity to humans. Not classified: conclusive data do not meet classification criteria.

**Reproductive toxicity:** >2,000 mg/kg dermal. Not classified: conclusive data do not meet classification criteria.

**Developmental effects:** > 150 mg/kg/day, Read across from supporting substance Result: NOAEL

**Fertility - EU category:** >893 mg/kg/day, Read across from supporting substance Result: NOAEL

**Specific Target Organ Toxicity - Single Exposure:** May cause respiratory irritation

**Specific Target organ toxicity - Repeated Exposure:** Orl-rat (male) 90 d, OECD Test 411, NOAEL <69 mg/kg Reason for no classification: conclusive but not sufficient for classification.

**Aspiration Hazard:** No data available

#### Sodium metasilicate

**Acute Toxicity - Oral:** LD50 (Rat): 1152-1349 mg/kg bw, Material will cause chemical burns. All symptoms of acute toxicity are due to high alkalinity.

**Acute Toxicity - Dermal:** LD50 (Rat): >5000 mg/kg bw. Material will cause chemical burns.

**Acute Toxicity - Inhalation:** LC50 (Rat): Dust is severely irritating to the respiratory tract. All symptoms of acute toxicity are due to high alkalinity.

**Skin Corrosion/Irritation:** Corrosive to skin

**Serious Eye Damage/Eye Irritation:** Corrosive to eyes; material will cause chemical burns, may cause permanent damage if eyes are not immediately irrigated.  
**Respiratory sensitisation:** No data available  
**Skin sensitisation:** Non-sensitising (LLNA)  
**Germ cell mutagenicity:** This material has not exhibited mutagenic or genotoxic potential in in vivo or in vitro studies.  
**Carcinogenicity:** Not listed by IARC, NTP, OSHA or other agency.  
**Reproductive toxicity:** No evidence of reproductive toxicity.  
**Developmental effects:** No evidence of developmental toxicity.  
**Fertility - EU category:** No data available  
**Specific Target Organ Toxicity - Single Exposure:** Irritating to respiratory tract  
**Specific Target organ toxicity - Repeated Exposure:** Not classified. NOAEL OrI-rat: 227 mg/kg bw/d  
**Aspiration Hazard:** Not classifiable.

#### Ethoxylated alcohol phosphate

**Acute Toxicity – Oral:** LD50 (Rabbit): 27400 mg/kg estimated, OrI-rat LD50: 15300 estimated, Not classified based on available data  
**Acute Toxicity – Dermal:** LD50 (Rabbit): Not classified based on available data  
**Acute Toxicity – Inhalation:** LC50 (Rat): Not classified based on available data  
**Skin Corrosion/Irritation:** Irritating; Rabbit.  
**Serious Eye Damage/Eye Irritation:** Irritating; Rabbit  
**Respiratory sensitisation:** No data available  
**Skin sensitisation:** Non-sensitising (Supplier information)  
**Germ cell mutagenicity:** This material has not exhibited mutagenic or genotoxic potential in laboratory tests.  
**Carcinogenicity:** No data available  
**Reproductive toxicity:** No data available  
**Developmental effects:** No data available  
**Fertility - EU category:** No data available  
**Specific Target Organ Toxicity - Single Exposure:** No data available  
**Specific Target organ toxicity - Repeated Exposure:** Not classified based on available data.  
**Aspiration Hazard:** Not applicable

## Section 12. Ecological information

### 12.1 Toxicity

#### Product

**Fish:** Not toxic to fish but may affect gill functions resulting in suffocation if spilled in shallow, running water.  
**Toxicity to Terrestrial Plants:** If applied to leaves or soil, may kill grasses and small plants.  
**Toxicity to Above-Ground Organisms:** None known.

#### 2-butoxyethanol

**Fish:** Static: LC50 Oncorhynchus mykiss (rainbow trout) 1.474 mg/l, 96 hours; OECD Test 203, Semi-static: NOEC Danio rerio (zebra fish) >100 mg/kg, 21 d, OECD Test 204; Not toxic to fish but may coat gill structures resulting in suffocation if spilled in shallow, running water.  
**Aquatic Invertebrates:** Static: EC50 Daphnia magna (water flea) > 1.80 mg/l, 48 hours OECD Test 202; Semi-static NOEC Daphnia magna (water flea) 100 mg/l, 21 d, OECD Test 211  
**Toxicity to Aquatic Plants:** EC50 Pseudokirchnerella subcapitata (green algae) 911 mg/l, 72 hours, OECD Test 201  
**Toxicity to soil dwelling organisms:** No data available  
**Sediment Toxicity:** No data available  
**Toxicity to Terrestrial Plants:** No data available  
**Toxicity to Above-Ground Organisms:** No data available  
**Toxicity to microorganisms:** No data available

#### Sodium Metasilicate

**Fish:** LC50 Danio rerio (zebra fish, 4 Days): 210 mg/l  
**Aquatic Invertebrates:** EC50 Water flea (Daphnia magna), 2 d: 1700 mg/l  
**Toxicity to Aquatic Plants:** No data available  
**Toxicity to soil dwelling organisms:** No data available  
**Sediment Toxicity:** No data available  
**Toxicity to Terrestrial Plants:** No data available  
**Toxicity to Above-Ground Organisms:** No data available  
**Toxicity to microorganisms:** No data available

#### Ethoxylated alcohol phosphate

**Fish:** No data available  
**Aquatic Invertebrates:** No data available  
**Toxicity to Aquatic Plants:** No data available  
**Toxicity to soil dwelling organisms:** No data available  
**Sediment Toxicity:** No data available  
**Toxicity to Terrestrial Plants:** No data available  
**Toxicity to Above-Ground Organisms:** No data available  
**Toxicity to microorganisms:** No data available

### 12.2 Persistence and Degradability

#### Product

**Biodegradation:** Readily biodegradable.  
**BOD/COD Ratio:** No data available  
**Hydrolysis Half-life:** No data available  
**12.3 Bioaccumulative Potential:** No potential to bioaccumulate in aquatic organisms.  
**12.4 Mobility in soil:** Not established

**12.5 Results of PBT and vPvB Assessment:** Does not contain any substances that are assessed to be a PBT or a vPvB  
**12.6 Other Adverse Effects:** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected.

#### 2-butoxyethanol

**Biodegradation:** Readily biodegradable. CO2 formation 90,4 % of theoretical in 28 d, OECD Test 301B  
**BOD/COD Ratio:** No data available  
**Hydrolysis Half-life:** No data available

**12.3 Bioaccumulative Potential:** Contains constituents with the potential to bioaccumulate in aquatic organisms.  
**Bioconcentration Factor (BCF):** No data available  
**Partition Coefficient n-octanol / water (log Kow):** 0.81  
**12.4 Mobility in soil:** No data available  
**12.5 Results of PBT and vPvB Assessment:** Not persistent, bioaccumulative nor toxic (PBT) or very bioaccumulative (vPvB).  
**12.6 Other Adverse Effects:** No data available

#### **Sodium metasilicate**

**Biodegradation:** Inorganic. Soluble silicates, upon dilution, rapidly depolymerize into molecular species indistinguishable from natural dissolved silica.  
**BOD/COD Ratio:** Not applicable  
**Hydrolysis Half-life** Not applicable  
**12.3 Bioaccumulative Potential:** Inorganic. No potential for bioaccumulation.  
**Bioconcentration Factor (BCF):** Not applicable  
**Partition Coefficient n-octanol / water (log Kow):** Not applicable  
**12.4 Mobility in soil:** Not applicable  
**12.5 Results of PBT and vPvB Assessment:** Not persistent, bioaccumulative nor toxic (PBT) or very bioaccumulative (vPvB).  
**12.6 Other Adverse Effects:** No data available

#### **Ethoxylated alcohol phosphate**

**Biodegradation:** Readily biodegradable  
**BOD/COD Ratio:** No data available  
**Hydrolysis Half-life** No data available  
**12.3 Bioaccumulative Potential:** No potential to bioaccumulate in aquatic organisms.  
**Bioconcentration Factor (BCF):** No data available  
**Partition Coefficient n-octanol / water (log Kow):** No data available  
**12.4 Mobility in soil:** No data available  
**12.5 Results of PBT and vPvB Assessment:** Not persistent, bioaccumulative nor toxic (PBT) or very bioaccumulative (vPvB).  
**12.6 Other Adverse Effects:** No data available

### **Section 13. Disposal considerations**

#### **13.1 Waste Treatment Methods**

##### **13.1.1 Product / Packaging Disposal**

**Product Wastes from Residues/ Unused Product:** Waste code / designation according to LoW: Classified as hazardous waste under the Hazardous Waste (England and Wales) Regulations SI2005 No. 894 Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial and Local regulations.

**EU waste code:** Not applicable (Appendix A Consolidated European Waste Catalogue (EWC 2002))

**Contaminated Packaging:** Empty remaining contents. Empty containers should be taken for local recycling, recovery or waste disposal.

**13.1.2 Waste treatment – relevant information:** None known.

**13.1.3 Sewage disposal – relevant information:** Waste should not be disposed of by release to sewers.

**13.1.4 Other disposal recommendations:** Final decisions on the appropriate waste management method, in line with regional, national and European legislation, and possible adaptation to local conditions, remains the responsibility of the waste treatment operator.

### **Section 14. Transport information**

Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. For transportation, steps must be taken to prevent load shifting or materials falling, and all relating legal statutes should be obeyed. Review classification requirements before shipping materials at elevated temperatures.

#### **RID**

**14.3. Transport hazard class(es)** Not regulated as dangerous goods.

#### **ADR**

**14.3. Transport hazard class(es)** Not regulated as dangerous goods.

#### **ICAO (air)**

**14.3. Transport hazard class(es)** Not regulated as dangerous goods.

#### **IATA**

**14.3. Transport hazard class(es)** Not regulated as dangerous goods.

#### **IMDG**

**14.3. Transport hazard class(es)** Not regulated as dangerous goods.

**14.5. Environmental hazards: Marine Pollutant:** No

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:** Not intended to be transported in bulk.

### **Section 15. Regulatory information**

#### **15.1 Safety, Health and Environmental Regulations/Legislation for the Substance or Mixture**

**Authorizations and/or restrictions on use:** This product does not contain substances subject to authorizations (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction ((Regulation (EC) No. 1907/2006 (REACH), Annex XIV).

**Substances that deplete the ozone layer** None

**Persistent Organic Pollutants:** None

**Inventory Listing: EINECS/ELINCS** All components are listed

**15.2 Chemical Safety Assessment:** No Chemical Safety Assessment has been carried out.

### **Section 16. Other information**

**Prepared by:** U.S. Corrosion Technologies, LLC Technical Services Department

This safety data sheet complies with the requirements of Regulation (EC) No, 1907/2006, as amended by Regulation (EU) No. 453/2010.

**Indication of Changes:** Original Document

Full text of H-statements: see SECTION 3.  
H318 Causes serious eye damage  
H302 Harmful if swallowed

Glossary of abbreviations  
bw/d body weight/day

Disclaimer: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damage incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical and application of such products is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the sole responsibility of the user to comply with all applicable Laws and Regulations. Any questions with regards to information contained herein should be referred to U. S. Corrosion Technologies, LLC (972) 271-7361.