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# SAFETY DATA SHEET CORRSHIELD\* BT4301

# 1. Identification

Product identifier	CORRSHIELD BT4301
Other means of identification	None.
Recommended use	Water-based corrosion inhibitor
Recommended restrictions	None known.

#### Company/undertaking identification

Veolia WTS USA, Inc. 3600 Horizon Blvd. Trevose, PA 19053 T 215 355 3300, F 215 953 5524

#### **Emergency telephone**

(800) 877 1940

## 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Serious eye damage/eye irritation	Category 2B
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
OSHA defined hazards	Not classified.	
Label elements		
	$\mathbf{A}$	
	$\langle ! \rangle$	

Signal word	Warning	
Hazard statement	Causes eye irritation. May cause respiratory irritation.	
Precautionary statement		
Prevention	Avoid breathing mist/vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.	
Response	Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	None.	

# 3. Composition/information on ingredients

**Mixtures** 

Components		CAS #	Percent
Boric Acid (hbo2), Sodium Salt, Di	hydrate	16800-11-6	20 - 40
Composition comments	Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this SDS for our assessment of the potential hazards of this formulation.		
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in a center or doctor/physician if you feel unwell.	a position comfortable for	preathing. Call a poison
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.		
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.		
Ingestion	Rinse mouth. Do not feed anything by mouth to an unconscious or convulsive victim. Get medica attention if symptoms occur. Do not induce vomiting.		Ilsive victim. Get medical
Most important symptoms/effects, acute and delayed	Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. May cause respiratory irritation.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat Symptoms may be delayed.	t symptomatically. Keep v	ctim under observation.
General information	If you feel unwell, seek medical advice (show the personnel are aware of the material(s) involved		
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbo	n dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this	s will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.		
Special protective equipment and precautions for firefighters	Wear full protective clothing, including helmet, demand breathing apparatus, protective clothir		essure or pressure
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe consider the hazards of other involved material		
Specific methods	Use standard firefighting procedures and consi	der the hazards of other in	nvolved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep peop appropriate protective equipment and clothing touch damaged containers or spilled material u Ensure adequate ventilation. Local authorities contained. For personal protection, see section	during clean-up. Avoid bre inless wearing appropriate should be advised if signif	eathing mist/vapor. Do no protective clothing.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is possible. Absorb in vermiculite, dry sand or ear recovery, flush area with water.		
	Small Spills: Wipe up with absorbent material ( remove residual contamination.	e.g. cloth, fleece). Clean s	surface thoroughly to
	Never return spills to original containers for re-	use. For waste disposal, s	ee section 13 of the SDS

**Environmental precautions** 

# Water contaminated with this product may be sent to a sanitary sewer treatment facility, or a permitted waste treatment facility, in accordance with any local agreements. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling	Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Use care in handling/storage.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Store in accordance with local/regional/national/international regulation.

## 8. Exposure controls/personal protection

This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.

**Occupational exposure limits** 

Biological limit values	No biological exposure limits noted for the ingredient(s).	
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. Provide eyewash station.	
Individual protection measures,	, such as personal protective equipment	
Eye/face protection	Wear safety glasses with side shields (or goggles).	
Skin protection		
Hand protection	Wear appropriate chemical resistant gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Glove selection must take into account any solvents and other hazards present.	
Other	Wear suitable protective clothing.	
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. A respiratory protection program that meets OSHA's 29 CFR 1910.34 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	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.	

# 9. Physical and chemical properties

Appearance	Liquid
Physical state	Liquid.
Form	Liquid.
Color	Colorless to light yellow
Odor	None
Odor threshold	Not available.
pH (concentrated product)	12
Melting point/freezing point	25 °F (-4 °C)
Initial boiling point and boiling range	212 °F (100 °C)
Flash point	> 212 °F (> 100 °C) P-M(CC)
Evaporation rate	< 1 (Ether = 1)
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	osive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	18 mm Hg
Vapor pressure temp.	70 °F (21 °C)
Vapor density	< 1 (Air = 1)
Relative density	1.15
Relative density temperature	70 °F (21 °C)
Solubility(ies)	
Solubility (water)	100 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	10 cps
Viscosity temperature	70 °F (21 °C)
Other information	
Explosive properties	Not explosive.
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Oxidizing properties	Not oxidizing.
Pour point	30 °F (-1 °C)
VOC	0 % (Calculated)

# 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Oxides of boron.

# 11. Toxicological information

### Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system.
Skin contact	Prolonged or repeated contact may cause irritation.
Eye contact	Causes eye irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. May cause respiratory irritation.

# Information on toxicological effects

Acute	toxicity
Acuic	lovicity

Product	Species	Test Results
CORRSHIELD BT4301		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg (Calculated according to GHS additivity formula)
Oral		
LD50	Rat	> 5000 mg/kg (Calculated according to GHS additivity formula)
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Causes eye irritation.	
Respiratory or skin sensitizatio	n	
<b>Respiratory sensitization</b>	Not a respiratory sensitizer. This product is not expected to cause respiratory sensitization.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Not classified.	
IARC Monographs. Overall Not listed.	Evaluation of Carcinogenicity	
	ed Substances (29 CFR 1910.1001-1053)	
Not listed.		
US. National Toxicology Pre	ogram (NTP) Report on Carcinogens	
Not listed.		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	May cause respiratory irritation.	
Specific target organ toxicity - repeated exposure	Not classified.	
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**Chronic effects** 

## 12. Ecological information

Ecotoxicity

Product		Species	Test Results	
Aquatic				
Crustacea	LC50	Daphnia magna	5500 mg/L, 48 hour (pH adjusted)	
	NOEL	Daphnia magna	1750 mg/L, 48 hour (pH adjusted)	
Fish	LC50	Fathead Minnow	4650 mg/L, 96 hour (pH adjusted)	
	NOEL	Fathead Minnow	2600 mg/L, 96 hour (pH adjusted)	
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.			
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Bioaccumulative potential	No data available.			
Mobility in soil	No data av	ailable.		
Other adverse effects	Not availat	ble.		

#### 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

#### DOT

Not regulated as dangerous goods.

Some containers may be exempt from Dangerous Goods/Hazmat Transport Regulations, please check BOL for exact container classification.

### ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

### 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### **Toxic Substances Control Act (TSCA)**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical	Yes		
Classified hazard categories	Serious eye damage or eye irritation Specific target organ toxicity (single or repeated exposure)		
SARA 313 (TRI reporting) Not regulated.			
Other federal regulations			
Clean Air Act (CAA) Section	112 Hazardous Air Pollutants (HAPs) List		
Not regulated.			
Clean Air Act (CAA) Section	112(r) Accidental Release Prevention (40 CFR 68.130)		
Not regulated.			
Safe Drinking Water Act (SDWA)	Contains component(s) regulated under the Safe Drinking Water Act.		
Inventory status			
Country(s) or region	Inventory name	On inventory (yes/no)*	
Canada	Domestic Substances List (DSL)	Yes	
Canada	Non-Domestic Substances List (NDSL)	No	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes	

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### US state regulations

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

No ingredient listed.

- US California Proposition 65 CRT: Listed date/Developmental toxin No ingredient listed.
- US California Proposition 65 CRT: Listed date/Female reproductive toxin

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin No ingredient listed.

#### 16. Other information, including date of preparation or last revision

Issue date	Dec-04-2014
Revision date	Feb-18-2023
Version #	6.1
NFPA ratings	Health: 2 Flammability: 0 Instability: 0

**NFPA** ratings



References:No data availableDisclaimerThe information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.Revision informationThis document has undergone significant changes and should be reviewed in its entirety.	List of abbreviations	CAS: Chemical Abstract Service Registration Number ACGIH: American Conference of Governmental Industrial Hygienists TWA: Time Weighted Average STEL: Short Term Exposure Limit LD50: Lethal Dose, 50% LC50: Lethal Concentration, 50% NOEL: No Observed Effect Level COD: Chemical Oxygen Demand BOD: Biochemical Oxygen Demand TOC: Total Organic Carbon TSRN indicates a Trade Secret Registry Number is used in place of the CAS number. IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods Code
information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.	References:	No data available
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Prepared by This SDS has been prepared by Veolia Water Technologies & Solutions' Regulatory Department (1-215-355-3300).	Prepared by	

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