



SAFETY DATA SHEET

CORRSHIELD NT4293

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation of the mixture CORRSHIELD NT4293

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

Identified uses Closed system corrosion inhibitor
Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

AECI Water	Postal address
1 Wharhirst Road	AECI Water
Umbogintwini	P.O.Box 2954,
Durban.4126	Kempton Park, 1620
Kwa Zulu Natal South Africa	Gauteng.
Tel: +27 11 971 0400	
Website: www.improchem.co.za - www.aeciworld.com	
E-mail: aeciwater@aeciworld.com	

1.4. Emergency telephone number

+27 800 SPILLS or +27 0800 774557 or +27 31 904 1400
(Office Hrs)

Multilingual emergency number (24/7)

Europe, Middle East, Africa, Israel (Europe and English language speaking countries):
+44(0)1235 239670

Middle East & Africa (speaking Arabic):
+44(0)1235 239671 VEOLIAWATERTECH29003-NCEC

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 as amended

Physical hazards

Corrosive to metals	Category 1	H290 - May be corrosive to metals.
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Health hazards

Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
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Skin corrosion/irritation	Category 1B	H314 - Causes severe skin burns and eye damage.
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Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.
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Reproductive toxicity (fertility, the unborn child)	Category 1B	H360FD - May damage fertility. May damage the unborn child.
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Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.
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2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Boric acid, disodium salt, pentahydrate, Phenolphthalein, Sodium hydroxide, Sodium nitrite



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Hazard pictograms



Signal word

Danger

Hazard statements

H290 May be corrosive to metals.
 H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H412 Harmful to aquatic life with long lasting effects.
 H360FD May damage fertility. May damage the unborn child.

Precautionary statements

Prevention

P273 Avoid release to the environment.

Response

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353 IF ON SKIN (or hair): 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.
 P310 Immediately call a POISON CENTRE/doctor.

Storage

P406 Store in a corrosion resistant container with a resistant inner liner.

Disposal

Not available.

Supplemental label information

EUH208 - Contains Sodium mercaptobenzothiazole. May produce an allergic reaction.

2.3. Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

Mixtures

Chemical description

Aqueous alkaline solution of inorganic salts

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Sodium nitrite	10 - < 20	7632-00-0 231-555-9	01-2119471836-27	007-010-00-4	Classification: Ox. Sol. 3;H272, Acute Tox. 3;H301, Eye Irrit. 2;H319, Aquatic Acute 1;H400
Sodium nitrate	5 - < 10	7631-99-4 231-554-3	01-2119488221-41	-	Classification: Ox. Sol. 2;H272, Eye Irrit. 2;H319
Sodium hydroxide	2 - < 5	1310-73-2 215-185-5	01-2119457892-27	011-002-00-6	Classification: Met. Corr. 1;H290, Skin Corr. 1A;H314
Boric acid,disodium salt,pentahydrate	< 6,5	12179-04-3 215-540-4	01-2119490790-32	005-011-02-9	Classification: Eye Irrit. 2;H319, Repr. 1B;H360D;H360F;H360FD
Sodium mercaptobenzothiazole	< 1	2492-26-4 219-660-8	01-2119493018-35	-	Classification: Met. Corr. 1;H290, Skin Corr. 1C;H314, Skin Sens. 1;H317, Aquatic Acute 1;H400, Aquatic Chronic 1;H410



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Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Phenolphthalein	<= 0,2	77-09-8 201-004-7	-	604-076-00-1	
Classification: Muta. 2;H341, Carc. 1B;H350, Repr. 2;H361f					

List of abbreviations and symbols that may be used above

- ATE: Acute toxicity estimate.
 - M: M-factor
 - vPvB: very persistent and very bioaccumulative substance.
 - PBT: persistent, bioaccumulative and toxic substance.
 - #: This substance has been assigned Union workplace exposure limit(s).
- All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

- General information** IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
- 4.1. Description of first aid measures**
- Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.
 - Skin contact** Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control centre immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
 - 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. Call a physician or poison control centre immediately.
 - Ingestion** Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
- 4.2. Most important symptoms and effects, both acute and delayed** Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
- 4.3. Indication of any immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

- 5.1. Extinguishing media**
- Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
 - Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.
- 5.2. Special hazards arising from the substance or mixture** During fire, gases hazardous to health may be formed.
- 5.3. Advice for firefighters**
- Special protective equipment for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
 - Special fire fighting procedures** Move containers from fire area if you can do so without risk. Prevent spillage and fire-fighting water from entering in public sewers or the immediate environment.
- Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures**
- For non-emergency personnel** Do not breathe mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.



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For emergency responders	Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Prevent entry into waterways, sewer, basements or confined areas. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapours. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Store locked up. Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Store in tightly closed container. Keep only in the original container. Store away from incompatible materials (see Section 10 of the SDS). Do not freeze.
7.3. Specific end use(s)	Only for industrial users

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

ACGIH Components	Type	Value
Boric acid,disodium salt,pentahydrate (CAS 12179-04-3)	STEL	6 mg/m3
	TWA	2 mg/m3
US. ACGIH Threshold Limit Values Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3
South Africa. Recommended Exposure Limits (RELs) Regulations for Hazardous Chemical Substances, Table 2 Components	Type	Value
Boric acid,disodium salt,pentahydrate (CAS 12179-04-3)	STEL	12 mg/m3
	TWA	4 mg/m3
Sodium hydroxide (CAS 1310-73-2)	STEL	4 mg/m3



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Egypt. OELs. Threshold limits of air pollutants in the workplace (Decree No. 388, Annex 8), as amended

Components	Type	Value
Boric acid, disodium salt, pentahydrate (CAS 12179-04-3)	TWA	1 mg/m ³
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m ³

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

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs)

Workers

Components	Value	Assessment factor	Notes
Sodium hydroxide (CAS 1310-73-2)			
Long-term, Local, Inhalation	1 mg/m ³	1	irritation respiratory tract
Sodium mercaptobenzothiazole (CAS 2492-26-4)			
Long-term, Local, Inhalation	1 mg/m ³		
Long-term, Systemic, Dermal	2,8 mg/kg bw/day		
Long-term, Systemic, Inhalation	10 mg/m ³		
Short-term, Local, Inhalation	1 mg/m ³		
Short-term, Systemic, Dermal	2,8 mg/kg bw/day		
Short-term, Systemic, Inhalation	10 mg/m ³		
Sodium nitrite (CAS 7632-00-0)			
Long-term, Systemic, Inhalation	2 mg/m ³	500	
Short-term, Systemic, Inhalation	2 mg/m ³	500	
Sodium silicate (MR>3.2) (CAS 1344-09-8)			
Long-term, Systemic, Dermal	1,59 mg/kg	100	
Long-term, Systemic, Inhalation	5,61 mg/m ³	25	

Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
Sodium mercaptobenzothiazole (CAS 2492-26-4)			
Freshwater	0,004 mg/l	10	
Intermittent releases	5 µg/l		
Marine water	410 ng/l	100	
Sediment (freshwater)	0,147 mg/kg		
Sediment (marine water)	0,015 mg/kg		
Soil	0,027 mg/kg		
STP	0,3 mg/l	10	
Sodium nitrate (CAS 7631-99-4)			
STP	18 mg/l	10	
Sodium nitrite (CAS 7632-00-0)			
Freshwater	5,4 µg/l	100	
Intermittent releases	5,4 µg/l	100	
Marine water	6,16 µg/l	1000	
Sediment (freshwater)	19,5 µg/kg		
Sediment (marine water)	22,3 µg/kg		
Soil	733 ng/kg		
STP	21 mg/l	10	
Sodium silicate (MR>3.2) (CAS 1344-09-8)			
Freshwater	7,5 mg/l		
Intermittent releases	7,5 mg/l		
Marine water	1 mg/l		
STP	348 mg/l	1	

8.2. Exposure controls



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Appropriate engineering controls	Good general ventilation 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 must 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 safety glasses with side shields (or goggles) and a face shield. Splash proof chemical goggles. SANS1404 - EN166
Skin protection	
- Hand protection	Wear appropriate chemical resistant gloves. Gauntlet type neoprene gloves (Protection against unintentional short-term contact) Gauntlet type nitrile gloves (Protection against unintentional short-term contact) Gauntlet type rubber gloves (Protection against unintentional short-term contact) Coating thickness: > 0.7 mm Penetration time: > 480 min SANS1228
- Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. SANS 1068; SANS 434; EN 471, EN 469 or EN 533
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. In case of insufficient ventilation, use a breathing mask with filter type: A2-P2 SANS 50136; SANS 50141
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	Observe any medical surveillance requirements. Keep away from food and drink. 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.
Environmental exposure controls	Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels. Prevent from entering in public sewers or the immediate environment. Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Form	Liquid
Colour	Red-purple
Odour	Mild
Melting point/freezing point	-4 °C
Boiling point or initial boiling point and boiling range	100 °C
Flammability	Not applicable.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Flash point	Not applicable
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
pH (concentrated product)	> 12 Neat



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Kinematic viscosity Not available.

Solubility

Solubility (water) 100 %

Partition coefficient (n-octanol/water) (log value) Not available.

Vapour pressure 18 mmHg

Vapour pressure temp. 21 °C

Density and/or relative density

Relative density 1,24

Relative density temperature 21 °C

Vapour density < 1

Particle characteristics Not available.

9.2. Other information

9.2.1. Information with regard to physical hazard classes No relevant additional information available.

9.2.2. Other safety characteristics

Evaporation rate Slower than Ether

Shelf life 720 Days

Viscosity 12 mPa.s

Viscosity temperature 21 °C

VOC 0 % Calculated

SECTION 10: Stability and reactivity

10.1. Reactivity May be corrosive to metals.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Heat. Protect from freezing.

10.5. Incompatible materials Strong acids. Strong oxidising agents. Metals. Avoid contact with combustible materials. Avoid all contact with reducing agents, oils, greases, organics and acids.

10.6. Hazardous decomposition products Thermal decomposition above 200°C releases oxides of nitrogen.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation may be harmful.

Skin contact Causes severe skin burns. May cause an allergic skin reaction.

Eye contact Causes serious eye damage.

Ingestion Causes digestive tract burns. Harmful if swallowed.

Symptoms Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Harmful if swallowed.



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Product	Species	Test Results
CORRSHIELD NT4293		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg (Calculated according to GHS additivity formula)
Oral		
LD50	Rat	660 mg/kg (Calculated according to GHS additivity formula (Category 4))
Components	Species	Test Results
Boric acid,disodium salt,pentahydrate (CAS 12179-04-3)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	2550 mg/kg
Sodium hydroxide (CAS 1310-73-2)		
Acute		
Dermal		
LD50	Rabbit	1350 mg/kg
Oral		
LD50	Rabbit	> 500 mg/kg
Sodium mercaptobenzothiazole (CAS 2492-26-4)		
Acute		
Dermal		
LD50	Rabbit	> 7940 mg/kg
Oral		
LD50	Rat	4350 mg/kg
Sodium nitrate (CAS 7631-99-4)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg
Oral		
LD50	Rat	3236 mg/kg
Sodium nitrite (CAS 7632-00-0)		
Acute		
Oral		
LD50	Rat	180 mg/kg
Skin corrosion/irritation	Causes severe skin burns and eye damage.	
Serious eye damage/eye irritation	Causes serious eye damage.	
Respiratory sensitisation	Based on available data, the classification criteria are not met.	
Skin sensitisation	Based on available data, the classification criteria are not met.	
Germ cell mutagenicity	Based on available data, the classification criteria are not met.	
Carcinogenicity	Based on available data, the classification criteria are not met.	
Reproductive toxicity	May damage fertility. May damage the unborn child.	
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.	



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Specific target organ toxicity - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

Mixture versus substance information No information available.

11.2. Information on other hazards

Endocrine disrupting properties This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

Other information May cause allergic respiratory and skin reactions.

SECTION 12: Ecological information

12.1. Toxicity Harmful to aquatic life with long lasting effects. Based on available data, the classification criteria are not met for hazardous to the aquatic environment, acute hazard.

12.2. Persistence and degradability

- COD (mgO₂/g) 35

- TOC (mg C/g) 2,6

12.3. Bioaccumulative potential No data available.

Partition coefficient n-octanol/water (log K_{ow}) Not available.

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. Not available.

12.6. Endocrine disrupting properties This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

12.7. Other adverse effects Nutrients: N = 32,7 mg/g
Heavy metals: Zn = 0,00096 mg/g

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste 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.

Via an authorized waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Via an authorized waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number or ID number UN3266



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14.2. UN proper shipping name CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide, mixture)
14.3. Transport hazard class(es)
 Class 8
 Subsidiary risk -
 Tunnel restriction code (E)
14.4. Packing group II
14.5. Environmental hazards No.
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

RID
14.1. UN number or ID number UN3266
14.2. UN proper shipping name CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide, mixture)
14.3. Transport hazard class(es)
 Class 8
 Subsidiary risk -
14.4. Packing group II
14.5. Environmental hazards No.
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

ADN
14.1. UN number or ID number UN3266
14.2. UN proper shipping name CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide, mixture)
14.3. Transport hazard class(es)
 Class 8
 Subsidiary risk -
14.4. Packing group II
14.5. Environmental hazards No.
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA
14.1. UN number or ID number UN3266
14.2. UN proper shipping name CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide, mixture)
14.3. Transport hazard class(es)
 Class 8
 Subsidiary risk -
14.4. Packing group II
14.5. Environmental hazards No.
ERG Code Not available.
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG
14.1. UN number or ID number UN3266
14.2. UN proper shipping name CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide, mixture)
14.3. Transport hazard class(es)
 Class 8
 Subsidiary risk -
14.4. Packing group II



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14.5. Environmental hazards

Marine pollutant No.

EmS F-A, S-B

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

14.7. Maritime transport in bulk according to IMO instruments Not established.

ADN; ADR; IATA; IMDG; RID



SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Sodium nitrate (CAS 7631-99-4)

Sodium nitrite (CAS 7632-00-0)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Boric acid, disodium salt, pentahydrate (CAS 12179-04-3)

Phenolphthalein (CAS 77-09-8)

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Boric acid, disodium salt, pentahydrate (CAS 12179-04-3) 30

Phenolphthalein (CAS 77-09-8) 28

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Boric acid, disodium salt, pentahydrate (CAS 12179-04-3)

Phenolphthalein (CAS 77-09-8)



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Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Sodium nitrite (CAS 7632-00-0)

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended.

National regulations

According to Directive 92/85/EEC as amended, pregnant women should not work with the product, if there is the least risk of exposure.

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

NSF Registered and/or meets USDA (according to 1998 guidelines):

Registration No. – 141180

Category Code(s):

G5 Cooling and retort water treatment products

G7 Boiler, steam line treatment products – nonfood contact

Inventory status

Country(s) or region

Inventory name

On inventory (yes/no)*

Europe

European Inventory of Existing Commercial Chemical Substances (EINECS)

Yes

Europe

European List of Notified Chemical Substances (ELINCS)

No

*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).

SECTION 16: Other information

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization.

CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.

EC50: Effective Concentration 50%.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

LC50: Lethal Concentration 50%.

LD50: Lethal Dose 50%.

MARPOL: International Convention for the Prevention of Pollution from Ships.

NOEL: No observed effect level.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit.

TOC: Total Organic Carbon.

TWA: Time Weighted Average.

vPvB: Very persistent and very bioaccumulative.

EC-No: European Commission Number

COD: Chemical Oxygen Demand

BOD: Biochemical oxygen demand.

References

Safety data sheets of raw materials.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements, which are not written out in full under sections 2 to 15

H272 May intensify fire; oxidiser.



SAFETY DATA SHEET

CORRSHIELD NT4293

H290 May be corrosive to metals.
H301 Toxic if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H360D May damage the unborn child.
H360F May damage fertility.
H360FD May damage fertility. May damage the unborn child.
H361f Suspected of damaging fertility.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Revision information

SECTION 2: Hazards identification: Hazard statements
SECTION 8: Exposure controls/personal protection: - Hand protection
SECTION 8: Exposure controls/personal protection: Respiratory protection
Physical & Chemical Properties: Multiple Properties
SECTION 11: Toxicological information: Reproductivity
SECTION 15: Regulatory information: National regulations
SECTION 16: Other information: References
SECTION 16: Other information: Further information
GHS: Classification

Training information

Follow training instructions when handling this material.

Disclaimer

The 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.

Based on EC Directive / Regulations

South African Standard : SABS ISO 11014-1:2009 - SANS 10234:2008

Further information

Correction in Section: 1,2,3,4,7,8,11,15,16