SAFETY DATA SHEET

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

1.1. Product identifier	
Trade name or	HYDREX 1110
designation of the mixture	
Registration number	-
Synonyms	None.
Issue date	19-December-2017
Version number	01
1.2. Relevant identified uses o	f the substance or mixture and uses advised against
Identified uses	Boiler Water Treatment
Uses advised against	None known.
1.3. Details of the supplier of t	the safety data sheet
Supplier	VWS UK Ltd T/A Veolia Water Technologies
Address	Windsor Court
	Kingsmead Business Park
	High Wycombe-HP11 1JU - United Kingdom
Contact person	Hydrex Product Manager
Telephone	+44 1628 897 000
Fax	+44 1628 897 001
e-mail	hydrex.watertech@veolia.com
National Emergency	+44 1628 897 295
Number	
Global Emergency	1-760-476-3961 (code: 333239)
Contact	

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

Health hazards Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
Hazard summary	Harmful if swallowed. Occupational exposure to the health effects.	substance or mixture may cause adverse

2.2. Label elements

Contains:

Hazard pictograms

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

Sodium bisulfite

Signal word	Warning
Hazard statements	
EUH031 H302	Contact with acids liberates toxic gas. Harmful if swallowed.
Precautionary statements	
Prevention	
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
Response	
P301 + P312 P330	IF SWALLOWED: Call a POISON CENTRE/doctor/paramedic/ if you feel unwell. Rinse mouth.
Material name: HYDREX 1110	

3364 Version #: 01 Issue date: 19-December-2017 SDS UK



Storage	Store away from in	compatible materia	ls.		
Disposal	,	·			
- P501	Dispose of contents	s/container in accoi	dance with local/regional/nation	onal/international	regulations.
Supplemental label information	None.				
2.3. Other hazards	None known.				
SE	CTION 3: Comp	position/infor	mation on ingredients	;	
3.2. Mixtures					
General information					
Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Sodium bisulfite	30 - < 40	7631-90-5 231-548-0	01-2119524563-42-XXXX (016-064-00-8	
Classification: Acu	te Tox. 4;H302				В
Other components below repo levels	rtable 50 - < 70				
List of abbreviations and symb #: This substance has been as M: M-factor PBT: persistent, bioaccumulati vPvB: very persistent and very All concentrations are in perce	ssigned Union workp ve and toxic substan v bioaccumulative sul	lace exposure limit(ice. bstance.		cent by volume.	
Composition comments	The full text for all	H-statements is dis	played in section 16.		
	SECTI	ON 4: First aid	l measures		
General information			are of the material(s) involved data sheet to the doctor in atte		tions to
4.1. Description of first aid me					
Inhalation			mptoms develop or persist.	- l	
Skin contact Eye contact	-		edical attention if irritation dev		.
Ingestion	Rinse with water. Get medical attention if irritation develops and persists. Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.				
4.2. Most important symptoms and effects, both acute and delayed	Exposure may cause temporary irritation, redness, or discomfort.				
4.3. Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.				
	SECTIO	N 5: Firefighti	ng measures		
General fire hazards	No unusual fire or	explosion hazards r	loted.		
5.1. Extinguishing media Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).				
Unsuitable extinguishing media	Not available.				
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 brea	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.			
Special fire fighting procedures	Move containers fro	om fire area if you	Move containers from fire area if you can do so without risk.		
Specific methods					



SECTION 6: Accidental release measures

6.1. Personal precautions, prot	ective equipment and emergen	cy procedures
For non-emergency personnel	appropriate protective equipment	. Keep people away from and upwind of spill/leak. Wear and clothing during clean-up. Ensure adequate ventilation. Local nificant spillages cannot be contained.
For emergency responders	Keep unnecessary personnel away	
6.2. Environmental precautions	Avoid discharge into drains, water	courses or onto the ground.
6.3. Methods and material for containment and cleaning up		erial, if this is without risk. Dike the spilled material, where this is y sand or earth and place into containers. Following product
	Small Spills: Wipe up with absorbe remove residual contamination.	nt material (e.g. cloth, fleece). Clean surface thoroughly to
	Never return spills to original cont	ainers for re-use.
6.4. Reference to other sections	Not available.	
	SECTION 7: Handli	ng and storage
7.1. Precautions for safe handling	using, do not eat, drink or smoke.	Do not taste or swallow. Avoid prolonged exposure. When Provide adequate ventilation. Wear appropriate personal thoroughly after handling. Observe good industrial hygiene
7.2. Conditions for safe storage, including any incompatibilities	Protect from sunlight. Store in original	inal tightly closed container. Store in cool, dry place.
7.3. Specific end use(s)	Not available.	
SI	ECTION 8: Exposure contr	ols/personal protection
8.1. Control parameters		
Occupational exposure limits		
UK. EH40 Workplace Expos	sure Limits (WELs)	
Components	Туре	Value
Sodium bisulfite (CAS	TWΔ	5 mg/m3

Components	Гуре	Value
Sodium bisulfite (CAS 7631-90-5)	TWA	5 mg/m3
Biological limit values	No biological exposure limits noted f	or the ingredient(s).
Recommended monitoring procedures	Follow standard monitoring procedu	es.
Derived no effect levels (DNELs)	Not available.	
Predicted no effect concentrations (PNECs)	Not available.	
8.2. Exposure controls		
Appropriate engineering controls	be matched to conditions. If applicat engineering controls to maintain airb) air changes per hour) should be used. Ventilation rates should ble, use process enclosures, local exhaust ventilation, or other orne levels below recommended exposure limits. If exposure intain airborne levels to an acceptable level.
Individual protection measur	es, such as personal protective equ	ipment
General information	Personal protection equipment shoul with the supplier of the personal pro	d be chosen according to the CEN standards and in discussion tective equipment.
Eye/face protection	Before any handling, wear protective	glasses side-shields complying with the NF EN 166.
Skin protection		
- Hand protection	Suitable gloves can be recommended with the NF EN 374.	by the glove supplier. Wear protective gloves which comply
- Other	Wear suitable protective clothing. Ch	emical resistant gloves.
Respiratory protection	In case of insufficient ventilation, we mists.	ar suitable respiratory equipment. Avoid forming spray/aerosol
Thermal hazards	Wear appropriate thermal protective	clothing, when necessary.



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 manager must be informed of all major releases.

Environmental exposure controls

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance			
Physical state	Liquid.		
Form	Liquid.		
Colour	Not available.		
Odour	Not available.		
рН	3.5 - 5		
Melting point/freezing point	Not available.		
Initial boiling point and boiling range	Not available.		
Flash point	Not available.		
Flammability (solid, gas)	Not applicable.		
Vapour pressure	Not available.		
Solubility(ies)			
Solubility (water)	Not available.		
Solubility (other)	Not available.		
Partition coefficient (n-octanol/water)	Not available.		
Viscosity	Not available.		
Explosive properties	Not explosive.		
Oxidising properties	Not oxidising.		
9.2. Other information			
Density	1.31 - 1.35 g/cm ³		
	SECTION 10: Stal	pility and reactivity	
10.1. Reactivity	The product is stable and non-	reactive under normal conditions of use, storage and transport.	
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	Contact with incompatible mat	erials.	
10.5. Incompatible materials	Acids. Oxidizing agents.		
10.6. Hazardous decomposition products	Carbon dioxide. Carbon monoxide. Sulphur oxides.		
	SECTION 11: Toxic	ological information	
General information	Occupational exposure to the s	ubstance or mixture may cause adverse effects.	
Information on likely routes of	fexposure		
Inhalation	Prolonged inhalation may be harmful.		
Skin contact	No adverse effects due to skin contact are expected.		
Eye contact	Direct contact with eyes may cause temporary irritation.		
Ingestion	Harmful if swallowed.		
Symptoms	Exposure may cause temporary irritation, redness, or discomfort.		
11.1. Information on toxicolog	vical offecte		
Acute toxicity	Harmful if swallowed.		
-		Test results	
Acute toxicity	Harmful if swallowed.	Test results	
Acute toxicity Product	Harmful if swallowed.	Test results	
Acute toxicity Product HYDREX 1110	Harmful if swallowed.	Test results 5264 mg/kg estimated	



roduct	Species	٦	Test results
Inhalation	Det	-	0 mg/l 1 hours antimated
LC50	Rat	5	8 mg/l, 1 hours estimated
Oral	Det	-	
LD50	Rat		.3 g/kg estimated
components	Species		lest results
odium bisulfite (CAS 7631-90-5)			
<u>Acute</u> Dermal			
LD50	Rat		• 2000 mg/kg
Inhalation			
LC50	Rat	>	22 mg/l, 1 hours
Oral			
LD50	Rat	2	g/kg
* Estimates for product may b Skin corrosion/irritation		tional component data not shown.	is not possible
Serious eye damage/eye	-	or complete lack of data the classification or complete lack of data the classification	•
rritation			ו איז
Respiratory sensitisation	Due to partial	or complete lack of data the classification	is not possible.
Skin sensitisation	-	or complete lack of data the classification	-
Germ cell mutagenicity	Due to partial	or complete lack of data the classificatior	is not possible.
Carcinogenicity	Due to partial	or complete lack of data the classificatior	is not possible.
IARC Monographs. Overall	Evaluation of	Carcinogenicity	
Sodium bisulfite (CAS 763	1-90-5)	3 Not classifiable as to o	carcinogenicity to humans.
Reproductive toxicity	Due to partial	or complete lack of data the classification	is not possible.
Specific target organ toxicity single exposure	Due to partial	or complete lack of data the classification	is not possible.
Specific target organ toxicity • repeated exposure	Due to partial	or complete lack of data the classification	is not possible.
Aspiration hazard	Due to partial	or complete lack of data the classification	is not possible.
Mixture versus substance Information	No informatior	n available.	
Other information	Not available.		
	SECTI	ON 12: Ecological information	n
12.1. Toxicity	Based on avail environment.	able data, the classification criteria are no	ot met for hazardous to the aquatic
Product		Species	Test results
HYDREX 1110			
Aquatic			
Fish	LC50	Fish	629.8191 mg/l, 96 hours estimated
Components		Species	Test results
Sodium bisulfite (CAS 7631-90-5)			
Aquatic			
Crustacea	LC50	Pond snail (Lymnaea)	59 mg/l, 48 hours
		Water flea (Daphnia magna)	82 mg/l, 96 hours
Fish	LC50	Sailfin molly (Poecilia latipinna)	220 mg/l, 50 hours
		Western mosquitofish (Gambusia affinis) 240 mg/l, 48 hours
			240 mg/l, 96 hours

12.2. Persistence and No data is available on the degradability of this product.



12.3. Bioaccumulative potential	No data available.
Partition coefficient n-octanol/water (log Kow)	Not available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	Not available.
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 from this component.

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.		
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
Disposal methods/information	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.		
Special precautions	Dispose in accordance with all applicable regulations.		

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk Not established.

according to Annex II of

Marpol and the IBC Code

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 (EC) No. 850/2004 On persistent organic pollutants, Annex I 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 Not listed.



Regulation (EC) No. 1907/ Not listed.	2006, REACH Article 59(10) Candidate List as currently published by ECHA
Authorisations	
Regulation (EC) No. 1907/	2006, REACH Annex XIV Substances subject to authorization, as amended
Not listed.	
Restrictions on use	
Regulation (EC) No. 1907/ amended	2006, REACH Annex XVII Substances subject to restriction on marketing and use as
Not listed.	
Directive 2004/37/EC: on mutagens at work, as ame	the protection of workers from the risks related to exposure to carcinogens and nded.
Not listed.	
Other EU regulations	
Directive 2012/18/EU on I	major accident hazards involving dangerous substances, as amended
Not listed.	
Other regulations	The product is classified and labelled in accordance with EC directives or respective national laws This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.
National regulations	Follow national regulation for work with chemical agents.
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.
	SECTION 16: Other information
List of abbreviations	Not available.
References	Not available.
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculatior methods and test data, if available.
Full text of any H-statements not written out in full under Sections 2 to 15	H302 Harmful if swallowed.
Revision information	Product and Company Identification: Product Review
Training information	Follow training instructions when handling this material.
Disclaimer	Veolia Water Technologies is not able to anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use and or non respect of Veolia Water Technologies' requirement.

