Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - United Kingdom (UK)

SAFETY DATA SHEET

HG duo unblocker A



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

1.1 Product identifier	
Product name	: HG duo unblocker A
Product code	: 344 ART
Product description	: Cleaner.
Product type	: Liquid.
Other means of identification	: Not available.

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

For the most persistent blockages, bottle A

1.3 Details of the supplier of the safety data sheet

HG International BV Damsluisweg 70 - NL-1332 EJ - Almere - The Netherlands Tel.: +31 (0)36 54 94 700 - Fax: +31 (0)36 54 94 744 Email: info@hg.eu - Internet: www.hg.eu

e-mail address of person : safety@hg.eu responsible for this SDS

National contact

HG Hagesan UK Ltd. Unit 2 Lanswood Park Broomfield Road Elmstead Market Colchester Essex CO7 7FD Tel.: 0044 (0)1206 822744 Fax: 0044 (0)1206 827019

1.4 Emergency telephone number

1.4 Emergency telephone n	umper
National advisory body/Po	<u>vison Centre</u>
Telephone number	: England and Wales NHS Direct: 0845 4647
	Scotland NHS 24: 08454 24 24 24
	Republic of Ireland 01 809 2166
<u>Supplier</u>	
Telephone number	: +31 (0)36 54 94 777
Hours of operation	: Mo-Fr 9.00-17.00
Information limitations	: Only for medical personnel.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=1)

2.2 Label elements

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	Causes serious eye irritation. Causes skin irritation. Very toxic to aquatic life.
Precautionary statements		
General	:	Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	1	Wear protective gloves.
Response	:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Storage	1	Not applicable
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	:	Warning! Do not use together with other products. May release dangerous gases (chlorine).
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	nen	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Other hazards which do not result in classification	:	None known.

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SECTION 3: Composition/information on ingredients

N 41- - 4-

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
sodium hypochlorite solution Cl active	REACH #: 01-2119488154-34 EC: 231-668-3 CAS: 7681-52-9 Index: 017-011-00-1	≥1 - <5	Skin Corr. 1B, H314 Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) EUH031	[1]
sodium hydroxide	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2	≥0,5 - <2	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318	[1] [2]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid m	easures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention if adverse health effects persist or are severe.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

SECTION 4: First aid measures

4.3 Indication of any immed	diate medical attention and special treatment needed
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
SECTION 5: Firefig	hting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Not applicable

Unsuitable extinguishing	: Not applicable
media	

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life. Fire water contaminated with this materia must be contained and prevented from being discharged to any waterway, sewer o drain.	
Hazardous combustion products	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides	
5.3 Advice for firefighters		
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident there is a fire. No action shall be taken involving any personal risk or without suitable training.	if
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.	r

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and material for	СО	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop

up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

SECTION 6: Accidental release measures

Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds (in tonnes)

Named substances

Name	Notification and MAPP threshold	Safety report threshold
Mixtures of sodium hypochlorite classified as Aquatic Acute Category 1 [H400] containing less than 5 % active chlorine and not classified under any of the other hazard categories in Part 1 of Annex I.	200	500

Danger criteria

	Notification and MAPP threshold	Safety report threshold
E1	100	200

7.3 Specific end use(s)

Recommendations	:
Industrial sector specific	: Not available.
solutions	

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredie	ent name		Exposure limit v	alues
sodium hydroxide		EH40/2005 WELs (STEL: 2 mg/m ³ 15	United Kingdom (U minutes.	IK), 12/2011).
Recommended monitoring procedures	atmosphere or of the ventilatic protective equi the following: the assessmer limit values and atmospheres - of exposure to (Workplace atr for the measur	on or other control me pment. Reference sh European Standard E at of exposure by inha d measurement strate Guide for the applica chemical and biologie nospheres - General ement of chemical ag	may be required to a asures and/or the ne hould be made to mo N 689 (Workplace a alation to chemical ag egy) European Stand tion and use of proce cal agents) Europea requirements for the gents) Reference to	determine the effectiveness eccessity to use respiratory onitoring standards, such as tmospheres - Guidance for gents for comparison with dard EN 14042 (Workplace edures for the assessment in Standard EN 482 e performance of procedure
DNELs/DMELs	·			
No DNELs/DMELs available	э.			
PNECs				
No PNECs available				
8.2 Exposure controls				
Appropriate engineering controls	: Good general contaminants.	ventilation should be	sufficient to control v	worker exposure to airborne
Individual protection measu	ures			
Hygiene measures	before eating, Appropriate te Wash contam	smoking and using the chniques should be u	ne lavatory and at the ised to remove poter reusing. Ensure the	ng chemical products, e end of the working period ntially contaminated clothing at eyewash stations and
Eye/face protection	assessment ir gases or dusts unless the ass	idicates this is necess s. If contact is possib	sary to avoid exposu le, the following proto higher degree of pro	hould be used when a risk re to liquid splashes, mists, ection should be worn, tection: chemical splash
Skin protection				
Hand protection	protective equ Protection fo For long-term 0.38mm (thick	ipment must be guar r long-term use or sul use or submersion, u	anteed. bmersion ise nitrile rubber glov e of glove and qualit	nd maintenance of persona res of a thickness of at leas y), for a penetration time of EN 374:2003.
	For short-term thickness of a	t least 0.38mm (thick	ash protection, use r ness depends on typ	ection hitrile rubber gloves of a be of glove and quality), for a g to the standard EN 374:
		in order to guarantee ien choosing suitable		ves, the following has to be
		U	1	

SECTION 8: Exposure controls/personal protection

	 The simultaneous use of other chemical products; Necessary protection against physical risks like cutting, perforation or thermal
	hazards; and - The manufacturer's instructions and/or specifications for the gloves.
Body protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Butyl gloves.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical	a	nd chemical properties
<u>Appearance</u>		
Physical state	:	Liquid.
Colour	:	Yellow. [Light]
Odour	:	Chlorine
Odour threshold	1	Not applicable.
рН	1	13,5 [Conc. (% w/w): 100%]
Melting point/freezing point	:	0°C
Initial boiling point and boiling range	:	100°C
Flash point	:	[Product does not sustain combustion.]
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Upper/lower flammability or explosive limits	:	Not available.
Vapour pressure	:	Not available.
Vapour density	1	Not available.
Relative density	:	1,089
Solubility(ies)	:	Easily soluble in the following materials: hot water. Soluble in the following materials: cold water.
Partition coefficient: n-octanol/ water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not applicable.
Viscosity	:	Not available.
Explosive properties	1	Not available.
Oxidising properties	;	Not available.
9.2 Other information		
Solubility in water	:	Not available.
No additional information.		

Date of issue/Date of revision

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	: The product may not be stable under certain conditions of storage or use. See "Possibility of Hazardous Reactions" for further information.	
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
10.4 Conditions to avoid	: Not applicable	
10.5 Incompatible materials	: Reactive or incompatible with the following materials: acids	
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

SECTION 11: Toxicological information

11.1 Information on toxicological effects Acute toxicity Conclusion/Summary : Not available. Acute toxicity estimates

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
HG duo unblocker A	Eyes - Redness of the	Rabbit	2	48 hours	14 days
	conjunctivae				
	Eyes - Cornea opacity	Rabbit	0	1 hours	14 days
	Eyes - Iris lesion	Rabbit	1	1 hours	14 days
sodium hypochlorite solution	Eyes - Mild irritant	Rabbit	-	1.31	-
CI active				milligrams	
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
sodium hydroxide	Eyes - Severe irritant	Monkey	-	24 hours 1	-
				Percent	
	Eyes - Mild irritant	Rabbit	-	400	-
				Micrograms	
	Eyes - Severe irritant	Rabbit	-	24 hours 50	-
				Micrograms	
	Eyes - Severe irritant	Rabbit	-	1 Percent	-
	Eyes - Severe irritant	Rabbit	-	24 hours 1	-
				milligrams	
	Eyes - Severe irritant	Rabbit	-	0,5 minutes	-
				1 milligrams	
	Skin - Mild irritant	Human	-	24 hours 2	-
				Percent	
	Skin - Severe irritant	Rabbit	-	24 hours 500	-
				milligrams	
Conclusion/Summary	: Not available.				
Sensitisation					
Conclusion/Summary	: Not available.				
Mutagenicity					
Conclusion/Summary	: Not available.				
Carcinogenicity					
Conclusion/Summary	: Not available.				
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Date of issue/Date of revision

: 6-3-2018 Date of previous issue

ue : 6-3-2018

2015/830 - United Kingdom (HG duo unblocker A	UK)
SECTION 11: Toxico	Nogical information
Reproductive toxicity Conclusion/Summary	: Not available.
<u>Teratogenicity</u>	. Not available.
Conclusion/Summary	: Not available.
Specific target organ toxic	
Not available.	
Specific target organ toxic	ity (repeated exposure)
Not available.	
Aspiration hazard	
Not available.	
Information on likely routes	: Not available.
of exposure	
Potential acute health effect	ts : Causes serious eye irritation.
Eye contact Inhalation	 Causes serious eye inflation. No known significant effects or critical hazards.
Skin contact	: Causes skin irritation.
Ingestion	No known significant effects or critical hazards.
Symptoms related to the ph	ysical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following:
	pain or irritation watering
	redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following:
	irritation redness
Ingestion	: No specific data.
-	
	cts as well as chronic effects from short and long-term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate	: Not available.
effects	
Potential delayed effects	: Not available.
Potential chronic health ef	<u>fects</u>
Not available.	
Conclusion/Summary	: Not available.
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Date of issue/Date of revision

SECTION 11: Toxicological information

Other information

: Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
sodium hypochlorite solution Cl active	Acute EC50 0,67 mg/l Marine water	Algae - Phaeodactylum tricornutum - Exponential growth phase	96 hours
	Acute EC50 0,04 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 56400 µg/l Marine water	Crustaceans - Palaemonetes	48 hours
	Acute LC50 34,3 µg/l Fresh water Chronic NOEC 0,5 mg/l Marine water	Fish - Acipenser transmontanus Algae - Isochrysis galbana - Exponential growth phase	96 hours 96 hours
	Chronic NOEC 0,1 ppm Fresh water	Fish - Cyprinus carpio - Young	30 days
sodium hydroxide	Acute EC50 40,38 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 125 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours

Conclusion/Summary : Readily biodegradable

12.2 Persistence and degradability

Conclusion/Summary : Readily biodegradable

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
HG duo unblocker A	-	-	Readily

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil	
Soil/water partition coefficient (K _{oc})	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

PBT	: Not applicable.
vPvB	: Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product		
Methods of disposal	: The generation of waste should be avoided or minimised whe Disposal of this product, solutions and any by-products should with the requirements of environmental protection and waste and any regional local authority requirements. Dispose of sur recyclable products via a licensed waste disposal contractor. disposed of untreated to the sewer unless fully compliant with all authorities with jurisdiction.	d at all times comply disposal legislation rplus and non- Waste should not be
Hazardous waste	: The classification of the product may meet the criteria for a ha	azardous waste.
Date of issue/Date of revision	: 6-3-2018 Date of previous issue : 6-3-2018	Version : 2.02 10/13

SECTION 13: Disposal considerations

Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN1760	UN1760	UN1760	UN1760
14.2 UN proper shipping name	CORROSIVE LIQUID, N.O.S. (sodium hypochlorite, solution, solution)	CORROSIVE LIQUID, N.O.S. (sodium hypochlorite, solution, solution)	CORROSIVE LIQUID, N.O.S. (sodium hypochlorite, solution, solution)	CORROSIVE LIQUID, N.O.S. (sodium hypochlorite, solution, solution)
14.3 Transport hazard class(es)	8	8		8
14.4 Packing group	111	111	111	111
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional information	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Hazard identification</u> <u>number</u> 80 <u>Limited quantity</u> 5 L <u>Tunnel code</u> (E)	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency</u> <u>schedules</u> F-A, S-B	The environmentally hazardous substance mark may appear if required by other transportation regulations.

14.6 Special precautions for	Transport within user's premises: always transport in closed containers that are
user	upright and secure. Ensure that persons transporting the product know what to do in
	the event of an accident or spillage.

14.7 Transport in bulk	: Not applicable.
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 <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

11/13

SECTION 15: Regulatory information

SECTION 15. Reg		
Annex XVII - Restrict on the manufacture, placing on the marke and use of certain dangerous substance mixtures and articles	et ces,	
Other EU regulations		
Europe inventory	: Not determined.	
Black List Chemicals (76/464/EEC)	S :	
Ozone depleting sub	<u>ostances (1005/2009/EU)</u>	
Not listed.		
Prior Informed Conse	ent (PIC) (649/2012/EU)	
Not listed.		
Seveso Directive This product is control Named substances	lled under the Seveso Directive.	
Name		
	hypochlorite classified as Aquatic Acute Category 1 [H400] containing less than s ssified under any of the other hazard categories in Part 1 of Annex I.	5 % active
Danger criteria		
Category		
Contains (Regulatio (EC) No 648/2004)	on : anionic surfactants, chlorine-based bleaching agents	<5%
International regulatio	one	
_	nvention List Schedules I, II & III Chemicals	
Not listed.		
Montreal Protocol (An Not listed.	<u>Inexes A, B, C, E)</u>	
Stockholm Convention Not listed.	on on Persistent Organic Pollutants	
Rotterdam Convention	on on Prior Informed Consent (PIC)	
Not listed.	<u>col on POPs and Heavy Metals</u>	
International lists National inventory		
Australia	: Not determined.	
Canada	: Not determined.	
China	: Not determined.	
Turkey	: Not determined.	
United States	: Not determined.	
Taiwan Philippings	Not determined.Not determined.	
Philippines New Zealand	Not determined.	
Malaysia	: Not determined.	
-		

SECTION 15: Reg	ulatory information	
Republic of Korea	Not determined	

Republic of Rolea	. Not determined.
Japan	: Japan inventory (ENCS): Not determined.
	Japan inventory (ISHL): Not determined.

15.2 Chemical safety	This product contains substances for which Chemical Safety Assessments are still
assessment	required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Irrit. 2, H315	Expert judgment
Eye Irrit. 2, H319	Expert judgment
Aquatic Acute 1, H400 (M=1)	Expert judgment

Full text of abbreviated H statements

11200	
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH031 Eye Dam. 1, H318 Eye Irrit. 2, H319 Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 Skin Irrit. 2, H315		SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 Contact with acids liberates toxic gas. SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 CORROSIVE TO METALS - Category 1 SKIN CORROSION/IRRITATION - Category 1A SKIN CORROSION/IRRITATION - Category 1B SKIN CORROSION/IRRITATION - Category 2	
Date of printing Date of issue/ Date of	: 9-3-2018 : 6-3-2018		
revision Date of previous issue	: 6-3-2018		
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Version : 2.02

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.