

Hyperox [®]		
Version 3.1		Paf 130000033587
		Kei.130000033387
This SDS adheres to the standa requirements in other countries.	rds a	nd regulatory requirements of Great Britain and may not meet the regulatory
Product identifier		
Floadel identifier		
Product name	:	Hyperox®
Relevant identified uses of	of the	e substance or mixture and uses advised against
Use of the Substance/Mixture	:	Disinfectant
Details of the supplier of	the s	afety data sheet
Company	:	Antec International Limited Windham Road Chilton Industrial Estate Sudbury / Suffolk - CO10 2XD United Kingdom
Telephone	:	+44(0)1787 377 305
Telefax	:	+44(0)1787 310 846
E-mail address	:	sds-support@che.dupont.com
Emergency telephone nu	mber	
Emergency telephone number	:	+44-(0)8456-006.640
Remarks	:	Antec International Limited is a wholly owned subsidiary of Dupont (UK) Ltd.
2. HAZARDS IDENTIFICATION		
Classification of the subs	tanc	e or mixture
Oxidising Corrosive Harmful		R 8: Contact with combustible material may cause fire. R34: Causes burns. R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

Label elements



Corrosive

R 8 R20/21/22

Contact with combustible material may cause fire. Also harmful by inhalation, in contact with skin and if swallowed.

1/10





Version 3.1 Revision Date 13.05.2011	Ref.130000033587
R34	Causes burns.
Special labelling of certain substances and mixtures	Spray application: Do not breathe vapours or spray mist. Use only in well-ventilated areas. Do not spray on a naked flame or any other incandescent material. Use an airless flow type spray applicator. Keep spraying pressure below 4.1 bar (410 kPa). Before use, read DuPont's safety information.
S 3/7 S14	Keep container tightly closed in a cool place. Keep away from contaminants, decomposition catalysts, alkalis, reductants and flammable substances
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 S35 S36/37/39 S45	After contact with skin, wash immediately with plenty of water. This material and its container must be disposed of in a safe way. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Other hazards

Inhalation of aerosol or fine spray mist may cause serious respiratory problems.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the	:	Aqueous solution
mixture		

Substances

not applicable

Mixtures

Registration number	Classification according Directive 67/548/EEC	Classification according Regulation 1272/2008 (CLP)	Concentration
eracetic acid (CAS-No.7	9-21-0) (EC-No.201-186-8)		
	R10 O;R 7 Xn;R20/21/22 C;R35 N;R50	Flam. Liq. 3; H226 Org. Perox. D; H242 Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox. 4; H302 Skin Corr. 1A; H314 Aquatic Acute 1; H400	3 - 8 %
vdrogen peroxide (CAS-	No.7722-84-1) (EC-No.23	1-765-0)	
	R 5 O;R 8 C;R35 Xn;R20/22	Ox. Liq. 1; H271 Acute Tox. 4; H332 Acute Tox. 4; H302 Skin Corr. 1A; H314	20 - 30 %
Acetic acid (CAS-No.64-1	9-7) (EC-No.200-580-7)		
-	/		

SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 and 453/2010



Hyperox[®]

	C;R35	Skin Corr. 1A; H314		
Poly(acrolein/acrylic acid) (CAS-No.28349-72-	6)		
	Xi;R41	Eye Dam. 1; H318	1 - 5 %	
For the full text of the R-phras For the full text of the H-State	es mentioned in thi ments mentioned in	s Section, see Section 16. this Section, see Section 16.		
Description of first aid meas	sures			
General advice	: Keep upper bo unconscious p doubt seek me	ody upright Never give anything by mout person. When symptoms persist or in all edical advice.	h to an cases of	
Inhalation	: Move to fresh respiration and immediately.	Move to fresh air. If victim has stopped breathing: Artificial respiration and/or oxygen may be necessary. Call a physician immediately.		
Skin contact	: Wash off immediate clothing and s	ediately with plenty of water. Take off co hoes immediately. Consult a physician.	ntaminated	
Eye contact	: Remove conta also under the medical advice	Remove contact lenses. Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. Seek medical advice.		
Ingestion	: Do NOT induc water. Call a p	e vomiting. Rinse mouth. Drink 1 or 2 gl hysician immediately.	asses of	
Most important symptoms a	ind effects, both a	cute and delayed		
Symptoms	: Corrosion, She	ortness of breath, Cough, Damage		
Indication of any immediate	medical attention	and special treatment needed		
no data available				
RE-FIGHTING MEASURES				
Extinguishing media				
Suitable extinguishing media	: Foam, Dry pov	vder, Water spray		
Extinguishing media which shall not be used for safety reasons	: Carbon dioxide	: Carbon dioxide (CO2)		
Special hazards arising from	n the substance of	r mixture		
Specific hazards during fire fighting	: Do not allow ru courses.	in-off from fire fighting to enter drains or	water	



Hyperox®	
Version 3.1 Revision Date 13.05.2011	Ref.130000033587
Special protective equipment for fire-fighters	: Wear self-contained breathing apparatus and protective suit.
Further information	: Use water spray to cool unopened containers. Prevent fire extinguishing water from contaminating surface water or the ground water system.
6. ACCIDENTAL BELEASE MEA	SUBES
Personal precautions, prote	ective equipment and emergency procedures
Personal precautions	: Evacuate personnel to safe areas. Wear personal protective equipment.
Environmental precautions	
Environmental precautions	: Do not contaminate surface water. Do not let product enter drains.
Methods and materials for o	containment and cleaning up
Methods for cleaning up	 Clean-up methods - large spillage Clean contaminated surface thoroughly. To clean the floor and all objects contaminated by this material, use plenty of water. Soak up with inert absorbent material. Shovel into suitable container for disposal. Clean-up methods - small spillage Dilute with plenty of water. Flush away traces with water. Soak up with inert absorbent material and dispose of as hazardous waste. Shovel into suitable container for disposal.
Other information	: Dispose of in accordance with local regulations.
Reference to other sections	i de la constante de la constan
not applicable	
7. HANDLING AND STORAGE	
Precautions for safe handli	ıg
Advice on safe handling	: For personal protection see section 8. Avoid contact with skin, eyes and clothing. Check packages regularly for any signs of deformation, pressure build-up leakage or temperature rise. Do not breathe vapour. Avoid formation of respirable particles.
Advice on protection against fire and explosion	: Keep away from direct sunlight.
Conditions for safe storage	, including any incompatibilities
Requirements for storage areas and containers	: Protect from contamination. Keep in original, vented container. When stacking, do not block cap vent. Keep in a dry, cool place.
Advice on common storage	: Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
	Keep away from: Strong bases Combustible material
	4/10



Version 3.1 Revision Date 13.05.2011

Ref.130000033587

Specific end uses

no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

If sub-section is empty then no values are applicable.

Components with workplace control parameters

Form of exposure parameters	Type Form of exposure	Control parameters	Update	Basis	Remarks
-----------------------------	--------------------------	-----------------------	--------	-------	---------

Hydrogen peroxide (CAS-No. 7722-84-1)

TWA	1,4 mg/m3 1 ppm	2007	EH40 WEL	
STEL	2,8 mg/m3 2 ppm	2007	EH40 WEL	

Acetic acid (CAS-No. 64-19-7)

TWA	25 mg/m3	12 2009	EU ELV	Indicative
	10 ppm			

Exposure controls

Engineering measures	:	Provide local exhaust ventilation when handling material in bulk. acid resisting floor Jointless smooth floor Use an airless flow type of spray applicator. Keep spraying pressure below 4.1 bar (410 kPa).
Eye protection	:	Tightly fitting safety goggles Face-shield
Hand protection	:	Rubber gloves Neoprene gloves Polyvinyl chloride - PVC
Skin and body protection	:	Wear as appropriate: Complete suit protecting against chemicals Rubber or plastic boots
Hygiene measures	:	Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing.
Respiratory protection	:	In the case of dust or aerosol formation use respirator with an approved filter.

9. PHYSICAL AND CHEMICAL PROPERTIES Information on basic physical and chemical properties Form : liquid Colour : colourless

QUPOND

Hyperox[®]

Version 3.1 Revision Date 13.05.2011	Ref.130000033587
Odour	: stinging
рН	: 1 at (20 °C)
Melting point/range	: ca6160 ℃
Boiling point/boiling range	: > 60 ℃ estimated
Flash point	: > 96 $^{\circ}$, Method: No information available. estimated
Ignition temperature	: ca. 430 ℃
Self-Accelerating decomposition temperature (SADT)	: 45 °C
Vapour pressure	: 27 hPa at 20 °C, estimated
Density	: ca. 1,12 g/cm3 at 20 °C
Water solubility	: completely miscible
Other information	
no data available	
10. STABILITY AND REACTIVITY	
Reactivity	: Decomposes on heating.
Chemical stability	: Decomposes on heating.
Possibility of hazardous reactions	: Potential for exothermic hazard If contaminated with impurities or incompatible substances, self-accelerated exothermic decomposition may occur. Decomposition in confined spaces and pipes may lead to over-pressure and bursting. Heating can release hazardous gases. Oxygen formation is possible. Decomposes on heating.
Conditions to avoid	: Exposure to sunlight. Heat.
Incompatible materials	: Metals Contamination Reducing agents Bases Powdered metal salts Combustible material Flammable materials organic solvent
Hazardous decomposition products	: no data available
11. TOXICOLOGICAL INFORMAT	ION
Information on toxicological	effects
Acute oral toxicity	
LD50 / rat female : 1 859 r	ng/kg
Acute inhalation toxicity	
	6/10



Version 3.1 Revision Date 13.05.2011

Ref.130000033587

ALC / rat : 0,49 mg/l

Acute dermal toxicity

LD50 / rat : 1 147 mg/kg

Skin irritation

rabbit Classification: Corrosive Method: OECD Test Guideline 404

Eye irritation

rabbit Result: Corrosive

Sensitisation

guinea pig Buehler Test Result: Animal test did not cause sensitization by skin contact.

Repeated dose toxicity

Oral rat Exposure time: 90 d Method: OECD Test Guideline 408

Mutagenicity assessment

- Hydrogen peroxide
 Experiments showed mutagenic effects in cultured bacterial cells.
- Poly(acrolein/acrylic acid) no data available

Carcinogenicity assessment

- Hydrogen peroxide no data available
- Poly(acrolein/acrylic acid) no data available

Toxicity to reproduction assessment

- Peracetic acid no data available
- Hydrogen peroxide
 No toxicity to reproduction
- Poly(acrolein/acrylic acid) no data available

Assessment teratogenicity



Version 3.1 Revision Date 13.05.2011

Ref.130000033587

- Peracetic acid no data available
- Poly(acrolein/acrylic acid) no data available

Human experience

Excessive exposures may affect human health, as follows:

Inhalation Upper respiratory tract: Cough, Damage, Severe shortness of breath

Skin contact Skin: Damage, Corrosion

Eye contact *Eyes*: Damage, Corrosion

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish

LC50 / 96 h / Oncorhynchus mykiss (rainbow trout): 1 - 2 mg/l

Toxicity to aquatic plants

IC50 / 120 h / Scenedesmus capricornutum (fresh water algae): ca. 0,18 mg/l Method: US EPA Test Guideline OPP 122-2 & 123-2

Toxicity to aquatic invertebrates

EC50 / 48 h / Daphnia: 0,5 - 1,1 mg/l Method: OECD Test Guideline 202

Chronic toxicity to aquatic Invertebrates

NOEC / 21 d / Daphnia magna (Water flea): 0,05 mg/l

Persistence and degradability

Biodegradability

Readily biodegradable.

Bioaccumulative potential

no data available

Mobility in soil

no data available



Hyperox®	
Version 3.1 Revision Date 13.05.2011	Ref.130000033587
Results of PBT and vPvB	assessment
no data available	
Other adverse effects	
Adsorbed organic bound ha	alogens (AOX)
Product does not conta	in any organic halogens.
13. DISPOSAL CONSIDERATION	ONS
Waste treatment methods	\$
Product	: Dispose of as special waste in compliance with local and national regulations. The product should not be allowed to enter drains, water courses or the soil.
Contaminated packaging	: If recycling is not practicable, dispose of in compliance with local regulations.
14. TRANSPORT INFORMATIC	DN
ADR Class: Packaging group: Classification Code: HI No: UN number: Labelling No.: Proper shipping name: Tunnel restriction code: IATA_C Class: Packaging group: UN number: Labelling No.: Proper shipping name: IMDG Class: Packaging group: UN number: Labelling No.: Proper shipping name:	 5.1 U OC1 58 3149 5.1, 8 Hydrogen peroxide and peroxyacetic acid mixture, stabilized (E) 5.1 II 3149 5.1, 8 Hydrogen peroxide and peroxyacetic acid mixture, stabilized 5.1 II 3149 5.1, 8 Hydrogen peroxide and peroxyacetic acid mixture, stabilized
15. REGULATORY INFORMAT	TON
Safety, health and enviro	nmental regulations/legislation specific for the substance or mixture
no data available	
Chemical Safety Assessn	nent
no data available	
	9/10



Version 3.1 Revision Date 13.05.2011

Ref.130000033587

16. OTHER INFORMATION

Text of R-phrases mentioned in Section 3

R 5	Heating may cause an explosion.
R 7	May cause fire.
R 8	Contact with combustible material may cause fire.
R10	Flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R20/22	Harmful by inhalation and if swallowed.
R35	Causes severe burns.
R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.

Full text of H-Statements referred to under section 3.

H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H271	May cause fire or explosion; strong oxidiser.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.

Other information professional use

Significant change from previous version is denoted with a double bar.

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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.