

SAFETY DATA SHEET

CYROX

Last changed: 09/02/2010

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

TRADE NAME CYROX
APPLICATION AREA Disinfectant
Detergent

Vendor art. number

2302

NATIONAL MANUFACTURER/IMPORTER

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CONTACT PERSONS

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Emergency Phone	Type of assistance	Opening Hours
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2. HAZARDS IDENTIFICATION

HEALTH

R22 Harmful if swallowed. R36/38 Irritating to eyes and skin.

FIRE AND EXPLOSION

Non-flammable. Easily emits oxygen and, on contact with organic substances, may cause fire or explosion.

ENVIRONMENT

Readily biodegradable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name	Reg.No	EC No.	CAS No.	Conc. (wt%)	Classification
hydrogen peroxide solution ... %		231-765-0	7722-84-1	5 - 10 %	C,O,R5 - R8 - R20/22 - R35
Citric acid (hydratised)			5949-29-1	5 - 10 %	Xi,R36/37/38

Explanation of symbols: T+=highly toxic, T=toxic, C=corrosive, Xn=harmful, Xi=irritant E=Explosive, O=Oxidising, F+=Extremely flammable, F=Highly flammable, N=Dangerous for the environment, Cancer=Carcinogenic, Mut=Mutagenic, Rep=Toxic for reproduction, Conc.=Concentration

4. FIRST AID MEASURES

GENERAL

Consult a physician for specific advice. Bring the safety data sheet.

INHALATION

Fresh air and rest. If breathing stops, provide artificial respiration.

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SKIN CONTACT

Promptly flush contaminated skin with soap or mild detergent and water. Promptly remove clothing if penetrated and flush the skin with water.

EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Consult an eye specialist if the irritation persists.

INGESTION

Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. DO NOT induce vomiting. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguishing media: Water spray, fog or mist.

EXTINGUISHING METHODS

Cool with a wide water jet. Cover over with dry sand.

FIRE AND EXPLOSION HAZARDS

Easily emits oxygen and, on contact with organic substances, may cause fire or explosion. In a fire, decomposes to oxygen that sustains combustion. Risk of high pressure and explosion in closed containers.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

Firemen must wear closed-circuit breathing equipment and full protective suits.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear necessary protective equipment. Keep unnecessary people away, isolate hazard area and deny entry. Avoid contact with the skin, eyes and respiratory tract.

SAFETY ACTIONS TO PROTECT EXTERNAL ENVIRONMENT

Prevent discharge of larger quantity to drain. Collect in a suitable container approved for the purpose. Bank in and collect.

METHODS FOR CLEANING UP

Absorb with inert, damp, noncombustible material, then flush area with water.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS

Do not mix the product with other substances or products without knowledge of whether this is risk-free. Should not be stored in the immediate vicinity of easily combustible substances.

HANDLING ADVICE

Avoid contact with the skin and eyes, and also contact with clothes. Store in original container to avoid contamination. Do not mix the product with other substances or products without knowledge of whether this is risk-free. Use suitable protective gloves, protective goggles and protective clothes if there is risk of direct contact or splashing.

STORAGE

Keep container tightly closed in a cool place. Always keep in a container of the same material as the original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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EXPOSURE CONTROL

Use suitable protective gloves and protective clothes if there is risk of direct contact or splashing.

RESPIRATORY PROTECTION

If ventilation is insufficient, suitable respiratory protection must be applied.

EYE PROTECTION

Use approved safety goggles or face shield.

HAND PROTECTION

Use protective gloves that are resistant to chemicals. Protective gloves (butyl rubber, natural rubber, nitrile rubber).

PROTECTIVE CLOTHING

Wear suitable protective clothing.

OTHER INFORMATION

Isolate contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid.
COLOUR	Colourless.
ODOUR	Somewhat pungent odour. Marked.
SOLUBILITY	Miscible with: Miscible with water.
WATER SOLUBILITY	100%
FAT SOLUBILITY	Not applicable.

Physical and chemical parameters

Parameter	Value/unit	Method/reference	Observation
pH concentrate	~ 1.50		
pH in solution	~ 2.00		
Density	1060.00 kg/m ³		

10. STABILITY AND REACTIVITY

STABILITY

Stable under recommended storage and handling conditions. Keeping for longer than one year is not recommended.

CONDITIONS TO AVOID

Avoid high temperatures and direct sunlight. Avoid contact with oxidising substances and strong bases.

MATERIALS TO AVOID

Easily emits oxygen and may cause fire on heating or on contact with acids, bases, certain organic substances and certain metals.

HAZARDOUS DECOMPOSITION PRODUCTS

May emit oxygen when heated.

11. TOXICOLOGICAL INFORMATION

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ACUTE TOXIC TEST RESULTS

hydrogen peroxide solution ... %				
Route of exposure	Exposure time	Value/unit	Species	Source
LD50(Dermal)		3000.00 mg/kg	rat	
LD50(Oral)		1518.00 mg/kg	rat	

INHALATION

Vapour may irritate respiratory system or lungs.

SKIN CONTACT

The skin immediately whitens. Irritating to skin.

EYE CONTACT

May be highly irritating. Risk of serious permanent damage.

INGESTION

Ingestion may cause nausea, vomiting, diarrhoea and respiratory difficulties. If swallowed, hydrogen peroxide quickly decomposes to oxygen that may cause distending and rupture of the stomach.

12. ECOLOGICAL INFORMATION

AQUATIC ECOTOXICITY

hydrogen peroxide solution ... %				
Test	Exposure time	Value/unit	Species	Source
EC50(Acute Daphnia)	48h	2.40 mg/l	Pulex	
IC50(Acute algae)	72h	2.50 mg/l	Chlorella vulgaris	
LC50(Acute fish)	96h	16.40 mg/l	Pimephales promelas	

ECOTOXICITY

Low acute toxicity.

DEGRADABILITY

Readily biodegradable.

ACCUMULATION

Bioaccumulation improbable.

13. DISPOSAL CONSIDERATIONS

GENERAL REGULATIONS

Do not try to refill or clean the packaging. Emptied and cleaned packaging can be recycled or burnt. Observe local regulations.

CATEGORY OF WASTE

Suitable classification of waste is the responsibility of the user. Empty packages must be handled in an environmentally-correct manner as per the applicable laws and regulations.

14. TRANSPORT INFORMATION

Classified as Dangerous Goods: No

15. REGULATORY INFORMATION

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Harmful

EC-Label: No

COMPOSITION

hydrogen peroxide solution ... %, Citric acid (hydratised)

R-PHRASES

R22 Harmful if swallowed.
R36/38 Irritating to eyes and skin.

S-PHRASES

S24/25 Avoid contact with skin and eyes.
S37/39 Wear suitable gloves and eye/face protection.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S38 In case of insufficient ventilation, wear suitable respiratory equipment.
S17 Keep away from combustible material.
S1/2 Keep locked up and out of the reach of children.

16. OTHER INFORMATION

VENDOR NOTES

Assessed on the basis of available data.

LIST OF RELEVANT R-PHRASES

R5 Heating may cause an explosion.
R8 Contact with combustible material may cause fire.
R20/22 Harmful by inhalation and if swallowed.
R35 Causes severe burns.
R36/37/38 Irritating to eyes, respiratory system and skin.

REVISION HISTORY

Version	Rev. date	Responsible	Changes
1.0.1	09/02/2010	WS	New database