

SAFETY DATA SHEET
BROMINE WATER 1.5% W/V

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME BROMINE WATER 1.5% W/V
 PRODUCT NO. 1015
 APPLICATION General chemical reagent
 SUPPLIER Reagent Chemical Services
 18 Aston Fields Road
 Whitehouse Industrial Estate
 Runcorn
 Cheshire
 WA7 3DL
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2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
BROMINE	231-778-1	7726-95-6	1-5%	T+;R26 C;R35 N;R50

The Full Text for all R-Phrases are Displayed in Section 16

3 HAZARDS IDENTIFICATION

Toxic by inhalation. Irritating to eyes and skin.

CLASSIFICATION T;R23. Xi;R36/38.

4 FIRST-AID MEASURES

INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get immediate medical attention.

INGESTION

Do not induce vomiting. Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention immediately!

SKIN CONTACT

Immediately remove contaminated clothing. Wash the skin immediately with soap and water. In serious cases obtain medical attention.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use fire-extinguishing media appropriate for surrounding materials.

SPECIFIC HAZARDS

In case of fire, toxic and corrosive gases may be formed.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

SPILL CLEAN UP METHODS

Spread soda ash liberally over spillage and transfer to containers. Wash contaminated area with water.

BROMINE WATER 1.5% W/V**7 HANDLING AND STORAGE**

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry and cool place.

STORAGE CLASS

Toxic storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
BROMINE	OES	0.1 ppm	0.66 mg/m3	0.3 ppm	2 mg/m3

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

RESPIRATORY EQUIPMENT

Self-contained breathing apparatus.

HAND PROTECTION

Use protective gloves. Nitrile.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination. Provide eyewash station.

HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated.

Promptly remove any clothing that becomes wet or contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid
COLOUR	Brownish
ODOUR	Slightly pungent odour
SOLUBILITY	Miscible with water.
BOILING POINT (°C)	About 100

10 STABILITY AND REACTIVITY

STABILITY

Heat sensitive

MATERIALS TO AVOID

Ammonia, phosphorus

11 TOXICOLOGICAL INFORMATION

INHALATION

Toxic by inhalation.

INGESTION

May cause chemical burns in mouth, oesophagus and stomach.

SKIN CONTACT

Irritating to skin.

EYE CONTACT

Irritating to eyes.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Although not classified as environmentally hazardous, harmful effects cannot be excluded in the event of improper handling or disposal.

13 DISPOSAL CONSIDERATIONS

BROMINE WATER 1.5% W/V

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION



UK ROAD CLASS	8		
PROPER SHIPPING NAME	CORROSIVE LIQUID, TOXIC, N.O.S. (BROMINE)		
UN NO. ROAD	2922	UK ROAD PACK GR.	III
ADR CLASS NO.	8	ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	III	HAZARD No. (ADR)	86
ADR LABEL NO.	8 & 6.1	HAZCHEM CODE	2X
CEFIC TEC(R) NO.	80GCT1-II+III	RID CLASS NO.	8
RID PACK GROUP	III	UN NO. SEA	2922
IMDG CLASS	8	IMDG PAGE NO.	8 & 6.1
IMDG PACK GR.	III	EMS	F-A, S-B
MFAG	See Guide	MARINE POLLUTANT	No.
UN NO. AIR	2922	ICAO CLASS	8
AIR SUB CLASS	6.1	AIR PACK GR.	III

15 REGULATORY INFORMATION

LABELLING



Toxic

CONTAINS

BROMINE

RISK PHRASES

R23 Toxic by inhalation.
R36/38 Irritating to eyes and skin.

SAFETY PHRASES

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.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S24/25 Avoid contact with skin and eyes.
S37/39 Wear suitable gloves and eye/face protection.
S60 This material and its container must be disposed of as hazardous waste.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. COSHH essentials: Easy steps to control chemicals. Control of Substances Hazardous to Health Regulations.

GUIDANCE NOTES

Occupational Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

NATIONAL REGULATIONS

Control of Substances Hazardous to Health Regulations 1999

16 OTHER INFORMATION

REVISION DATE: February 2004

BROMINE WATER 1.5% W/V

REVISION COMMENTS

General rewrite

REVISION DATE February 2004

REV. NO./REPL. SDS GENERATED Supercedes issue September 2001

SDS NO. 10064

RISK PHRASES IN FULL

R26 Very toxic by inhalation.

R35 Causes severe burns.

R50 Very toxic to aquatic organisms.