CAS No: 7783-33-7 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier

Product form : Mixture

.

Product code : B-01801

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Bio-Chem Chemicals 5455, Nicholson Road Science Market, Ambala Cantt. 133001 Haryana (India)

+91-82952 41953

info@biofinechemical.com - www.biofinechemical.com

1.4. Emergency telephone number

Emergency number : +91 99921 51495 (10.00am - 06.30pm) (Office Hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Repr.Cat.2; R61 T; R23 Xn; R48/20 C; R35 N; R51/53

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

Safety Data Sheet

2.2. Label elements

Labelling according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols







T - Toxic

C - Corrosive

N -Dangerous for the environment

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS No) 7732-18- 5 (EC no) 231-791-2	75 - 99	Not classified	Not classified
Hidróxido de sodio	(CAS No) 1310-73- 2	10 - 15	C; R35	Skin Corr. 1A, H314
mercury	(CAS No) 7439-97- 6 (EC no) 231-106-7 (EC index no) 080- 001-00-0	1 - 5	Repr.Cat.2; R61 T+; R26 T; R48/23 N; R50/53	Repr. 1B, H360D Acute Tox. 2 (Inhalation), H330 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Yoduro potásico	(CAS No) 7681-11- 0	1 - 5	Xn; R22 Xi; R36/38	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Irrit. 2, H315
lodine	(CAS No) 7553-56- 2 (EC no) 231-442-4 (EC index no) 053- 001-00-3	1 - 5	Xn; R20/21 N; R50	Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Aquatic Acute 1, H400

Full text of R- and H-phrases: see section 16

Safety Data Sheet

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor/physician.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after eve contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Immediately call a POISON CENTER or

doctor/physician.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or

doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes severe skin burns and eye damage. Causes damage to organs through

prolonged or repeated exposure.

Symptoms/injuries after inhalation : Fatal if inhaled.

Symptoms/injuries after skin contact : Fatal in contact with skin.

Symptoms/injuries after ingestion : Toxic if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Very toxic to aquatic life with long lasting effects.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills

with inert solids, such as clay or diatomaceous earth as soon as possible.

6.4. Reference to other sections

No additional information available

Safety Data Sheet

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact during

pregnancy/while nursing. Obtain special instructions before use. Do not handle until

all safety precautions have been read and understood. Avoid breathing

dust/fume/gas/mist/vapours/spray.

Hygiene measures : Wash ... thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Store in original container. Keep container tightly closed. Store in a dry place.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : protective gloves

Eye protection : Chemical goggles or face shield
Skin and body protection : Wear suitable protective clothing
Respiratory protection : Wear respiratory protection

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Pale yellow colour.

Odour : odourless.

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : 1050 °C

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

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Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 1.15 g/cm³

Solubility : Water: Miscible in water

Log Pow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates: Corrosive vapours.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Thermal decomposition generates: Corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Irritation : Not classified
Corrosivity : Not classified
Sensitisation : Not classified
Repeated dose toxicity : Not classified
Carcinogenicity : Not classified
Mutagenicity : Not classified
Toxicity for reproduction : Not classified

Safety Data Sheet

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

NESSLER'S REAGENT (KING'S)			
Persistence and degradability	May cause long-term adverse effects in the environment.		

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal : Dispose of contents/container to ...

recommendations

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

 UN-No. (ADR)
 : 2922

 UN-No. (IMDG)
 : 2922

 UN-No.(IATA)
 : 2922

 UN-No.(ADN)
 : 2922

 UN-No. (RID)
 : 2922

14.2. UN proper shipping name

Proper Shipping Name (ADR)

Proper Shipping Name (IMDG)

Proper Shipping Name (IMTA)

Proper Shipping Name (IATA)

Proper Shipping Name (ADN)

Proper Shipping Name (RID)

CORROSIVE LIQUID, TOXIC, N.O.S.

CORROSIVE LIQUID, TOXIC, N.O.S.

CORROSIVE LIQUID, TOXIC, N.O.S.

Transport document description (ADR) : UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S., 8 (6.1), II, (E),

ENVIRONMENTALLY HAZARDOUS

Transport document description (IMDG) : UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S., 8 (6.1), II, MARINE

POLLUTANT/ENVIRONMENTALLY HAZARDOUS

Safety Data Sheet

Transport document description (IATA) : UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S., 8 (6.1), II, ENVIRONMENTALLY

HAZARDOUS

Transport document description (ADN) : UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S., 8 (6.1), II, ENVIRONMENTALLY

HAZARDOUS

Transport document description (RID) : UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S., 8 (6.1), II, ENVIRONMENTALLY

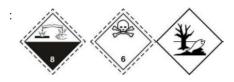
HAZARDOUS

14.3. Transport hazard class(es)

ADR

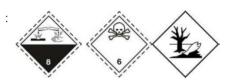
Transport hazard class(es) (ADR) : 8 (6.1)

Danger labels (ADR) : 8, 6.1



IMDG

Transport hazard class(es) (IMDG) : 8 (6.1)
Danger labels (IMDG) : 8, 6.1



IATA

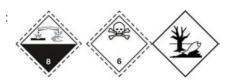
Transport hazard class(es) (IATA) : 8 (6.1) Hazard labels (IATA) : 8, 6.1



ADN

Transport hazard class(es) (ADN) : 8 (6.1)

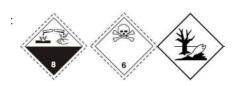
Danger labels (ADN) : 8, 6.1



RID

Transport hazard class(es) (RID) : 8 (6.1)

Danger labels (RID) : 8, 6.1



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14.4. Packing group

Packing group (ADR) : II Packing group (IMDG) : II Packing group (IATA) : II Packing group (ADN) · 11 Packing group (RID) : II

14.5. **Environmental hazards**

Dangerous for the environment : Yes Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : CT1 Special provision (ADR) : 274 : 1L Limited quantities (ADR) Excepted quantities (ADR) : E2

: P001, IBC02 Packing instructions (ADR) : MP15 Mixed packing provisions (ADR) : T7

Portable tank and bulk container

instructions (ADR)

Portable tank and bulk container special : TP2

provisions (ADR)

: L4BN Tank code (ADR) Vehicle for tank carriage : AT Transport category (ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

Hazard identification number (Kemler No.)

Orange plates

86 2922

: CV13, CV28

Tunnel restriction code (ADR) : E EAC code : 2X : B APP code

- Transport by sea

Special provision (IMDG) : 274 Limited quantities (IMDG) : 1 L Excepted quantities (IMDG) : E2 : P001 Packing instructions (IMDG) IBC packing instructions (IMDG) : IBC02 Tank instructions (IMDG) : T7 Tank special provisions (IMDG) : TP2 EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-B : B Stowage category (IMDG) Stowage and handling (IMDG) : SW2 MFAG-No : 154

- Air transport

PCA Excepted quantities (IATA) : E2

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PCA Limited quantities (IATA) : Y840
PCA limited quantity max net quantity : 0.5L

(IATA)

PCA packing instructions (IATA) : 851
PCA max net quantity (IATA) : 1L
CAO packing instructions (IATA) : 855
CAO max net quantity (IATA) : 30L
Special provision (IATA) : A3
ERG code (IATA) : 8P

- Inland waterway transport

Classification code (ADN) : CT1
Special provisions (ADN) : 274, 802
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E2
Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EP, TOX, A

Ventilation (ADN) : VE02 Number of blue cones/lights (ADN) : 2

- Rail transport

Classification code (RID) : CT1
Special provision (RID) : 274
Limited quantities (RID) : 1L
Excepted quantities (RID) : E2

Packing instructions (RID) : P001, IBC02

Mixed packing provisions (RID) : MP15
Portable tank and bulk container : T7

instructions (RID)

Portable tank and bulk container special : TP2

provisions (RID)

Tank codes for RID tanks (RID) : L4BN
Transport category (RID) : 2

Special provisions for carriage - Loading

and unloading (RID)

Colis express (express parcels) (RID) : CE6
Hazard identification number (RID) : 86

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

: CW13, CW28

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

Safety Data Sheet

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 3, strongly hazardous to water (Classification according

to AwSV, Annex 1)

Immission Control Act - 12.BImSchV

12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct

contact with the product

The requirements from the Danish Working Environment Authorities regarding work

with carcinogens must be followed during use and disposal

Chemical safety assessment 15.2.

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Repr. 1B	Reproductive toxicity, Category 1B	
Skin Corr. 1A	Skin corrosion/irritation, Category 1A	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1	
H302	Harmful if swallowed	
H312	Harmful in contact with skin	
H314	Causes severe skin burns and eye damage	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H330	Fatal if inhaled	
H332	Harmful if inhaled	
H360D	May damage the unborn child	
H372	Causes damage to organs through prolonged or repeated exposure	
H400	Very toxic to aquatic life	
H410	Very toxic to aquatic life with long lasting effects	
R20/21	Harmful by inhalation and in contact with skin	
R22	Harmful if swallowed	
R23	Toxic by inhalation	
R26	Very toxic by inhalation	

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R35	Causes severe burns		
R36/38	Irritating to eyes and skin		
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation		
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation		
R50	Very toxic to aquatic organisms		
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment		
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment		
R61	May cause harm to the unborn child		
С	Corrosive		
N	Dangerous for the environment		
Т	Toxic		
T+	Very toxic		
Xi	Irritant		
Xn	Harmful		

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product