

CAS No: 7699-45-8 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

ication of the substant	semixture and or the	company/undertaking

1.1. Product identifier	
Product form	: Substance
	:
CAS No	: 7699-45-8
Product code	: 06543
Chemical structure	:
	ZnBr ₂
	21012

1.2.	Relevant identified uses of the	substance or mixture and uses advised against
1.2.1.	Relevant identified uses	
Use of t	the substance/mixture	: Industrial. For professional use only.
1.2.2.	Uses advised against	
No add	itional information available	
1.3.	Details of the supplier of the sa	fety data sheet
107 Wc 400005 T +91 2	CHEMIE PVT.LTD. ode House Road, Jehangir Villa, Co Mumbai - INDIA 22 6663 6663 - F +91 22 6663 6699 obachemie.com - www.lobachemie.)
1.4.	Emergency telephone number	
Emerge	ency number	: + 91 22 6663 6663 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, H314 Category 1B Acute toxicity (oral), H302 Category 4 Sensitisation — Skin, H317 category 1 Hazardous to the aquatic H411 environment — Chronic Hazard, Category 2

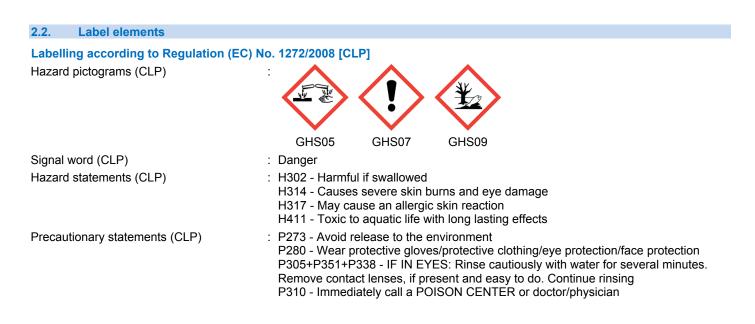
Full text of classification categories and H statements : see section 16

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

Xn; R22 C; R34 R43 N; R51/53 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects No additional information available



2.3. Other hazards

No additional information available

3.1. Substance	
	DE ANHYDROUS FOR SYNTHESIS
CAS No : 7699-45-8	

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

3.2. Mixture

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures)
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. Wash with plenty of soap and water. Get medical advice/attention.
First-aid measures after eye 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. Call a POISON CENTER or doctor/physician if you feel unwell. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/injuries	: Causes severe skin burns and eye damage.
Symptoms/injuries after inhalation	: May cause an allergic skin reaction.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
4.3. Indication of any immediate med	lical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the No additional information available	substance or mixture
5.3. Advice for firefighters	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measures	5
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.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contain	nment and cleaning up
Methods for cleaning up	: Minimize generation of dust. On land, sweep or shovel into suitable containers.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Do not breathe vapours. Avoid contact with skin and eyes. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures	 Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

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7.2. Conditions for safe storage, inc	luding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/persona	l protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Hand protection	: protective gloves
Eye protection Skin and body protection	Chemical goggles or face shield Wear suitable protective clothing
Respiratory protection	: Wear appropriate mask
SECTION 9: Physical and chemical prop	
9.1. Information on basic physical a	
Physical state	: Solid
Molecular mass	: 225.19 g/mol
Colour	: Cream color.
Odour	: No data available
Odour threshold	: No data available
рН	: 4 (aqueous solution)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 394 °C
Freezing point	: No data available
Boiling point	: 650 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available

: No data available

: 4.5 g/cm³

Relative density

Density

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Solubility	: Water: Complete (100%)	
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 No additional information available		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reaction	ons	
No additional information available		
10.4. Conditions to avoid		
Direct sunlight. Air contact. Moisture.		
10.5. Incompatible materials		
Oxidizing agent.		
10.6. Hazardous decomposition proc		
Thermal decomposition generates : Corros	sive vapours.	
SECTION 11: Toxicological information		
11.1. Information on toxicological eff	fects	
Acute toxicity	: Oral: Harmful if swallowed.	
Skin corrosion/irritation	: Causes severe skin burns and eye damage.	
Skin conosion/initiation	pH: 4 (aqueous solution)	
Serious eye damage/irritation	 Serious eye damage, category 1, implicit pH: 4 (aqueous solution) 	
Respiratory or skin sensitisation	: May cause an allergic skin reaction.	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Descendus films for 11		
Reproductive toxicity Specific target organ toxicity (single	: Not classified : Not classified	
exposure)		
Specific target organ toxicity (repeated exposure)	: Not classified	
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Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Harmful if swallowed.
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - water	: Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability		
ZINC BROMIDE ANHYDROUS FOR SYNTHESIS (7699-45-8)		
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 assess	sment	
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 / IAT	A / ADN	
14.1. UN number		
UN-No. (ADR)	: 3260	
UN-No. (IMDG)	: 3260	
UN-No.(IATA)	: 3260	
UN-No.(ADN)	: 3260	
UN-No. (RID)	: 3260	

14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
Proper Shipping Name (IMDG)	: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

:8 :8

:8 :8

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Proper Shipping Name (IATA)	: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
Proper Shipping Name (ADN)	: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
Proper Shipping Name (RID)	: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
Transport document description (ADR)	: UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., 8, III, (E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., 8, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., 8, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., 8, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., 8, III, ENVIRONMENTALLY HAZARDOUS
14.3 Transport hazard class(es)	

14.3.	Transport hazard class(es)	
ADR		

Transport hazard class(es) (ADR)	
Danger labels (ADR)	



IMDG

Transport hazard class(es) (IMDG)	
Danger labels (IMDG)	

ΙΑΤΑ

Transport hazard class(es) (IATA)	
Hazard labels (IATA)	



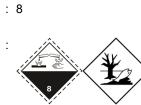
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ADN

Transport hazard class(es) (ADN) Danger labels (ADN)



RID

Transport hazard class(es) (RID)

: 8

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Danger labels (RID)

: 8



14.4. Packing group			
Packing group (ADR)	: 111		
Packing group (IMDG)	: 111		
Packing group (IATA)	: 111		
Packing group (ADN)	: 111		
Packing group (RID)	: 111		
14.5. Environmental hazards			

: Yes
: Yes
: No supplementary information available

- Overland transport	
Classification code (ADR)	: C2
Special provision (ADR)	: 274
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: B3
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T1
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Bulk (ADR)	: VC1, VC2, AP7
Hazard identification number (Kemler No.)	: 80
Orange plates	80 3260
Tunnel restriction code (ADR)	: E
EAC code	: 2X
- Transport by sea	
Special provision (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P002, LP02
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1
Tank special provisions (IMDG)	: TP33

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EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
MFAG-No	: 154
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y845
PCA limited quantity max net quantity (IATA)	: 5kg
PCA packing instructions (IATA)	: 860
PCA max net quantity (IATA)	: 25kg
CAO packing instructions (IATA)	: 864
CAO max net quantity (IATA)	: 100kg
Special provision (IATA)	: A3
ERG code (IATA)	: 8L
- Inland waterway transport	
Classification code (ADN)	: C2
Special provisions (ADN)	: 274
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: C2
Special provision (RID)	: 274
Limited quantities (RID)	: 5kg
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P002, IBC08, LP02, R001
Special packing provisions (RID)	: B3
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T1
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAV
Transport category (RID)	: 3
Special provisions for carriage – Bulk	: VC1, VC2, AP7
(RID)	
	: CE11

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

ZINC BROMIDE ANHYDROUS FOR SYNTHESIS is not on the REACH Candidate List ZINC BROMIDE ANHYDROUS FOR SYNTHESIS is not on the REACH Annex XIV List

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15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance) Immission Control Act - 12.BImSchV

Denmark

Recommendations Danish Regulation	: Young people below the age of 18	years are not allowed to use the product
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15.2. Chemical safety assessment No additional information available

SECTION 16: Other information

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

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Sens. 1	Sensitisation — Skin, category 1
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H411	Toxic to aquatic life with long lasting effects
R22	Harmful if swallowed
R34	Causes burns
R43	May cause sensitisation by skin contact
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
С	Corrosive
Ν	Dangerous for the environment
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