

Section 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Product name:** ZINC BROMIDE**CAS number:** 7699-45-8**Product code:** A72412**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.3. Details of the supplier of the safety data sheet****Company name:** Philip Harris Ltd

2 Gregory Street

Hyde

Cheshire

SK14 4HR

United Kingdom

Tel: +44 (0)845 1200 506**Fax:** +44 (0)161 367 2140**Email:** enquiries@philipharris.co.uk**1.4. Emergency telephone number****Emergency tel:** +44 (0) 845 1200 506**Section 2: Hazards identification****2.1. Classification of the substance or mixture****Classification under CLP:** Skin Corr. 1B: H314; Aquatic Chronic 1: H410; Aquatic Acute 1: H400**Classification under CHIP:** C: R34; N: R50/53**Most important adverse effects:** Causes severe skin burns and eye damage. Very toxic to aquatic life with long lasting effects.**2.2. Label elements****Label elements under CLP:****Hazard statements:** H314: Causes severe skin burns and eye damage.

H410: Very toxic to aquatic life with long lasting effects.

Signal words: Danger**Hazard pictograms:** GHS05: Corrosion

GHS09: Environmental



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Precautionary statements: P280: Wear.
P273: Avoid release to the environment.
P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P309: IF exposed or if you feel unwell:
P310: Immediately call a POISON CENTER or doctor.

2.3. Other hazards

PBT: This product is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: ZINC BROMIDE

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Consult a doctor. Remove all contaminated clothes and footwear immediately unless stuck to skin.

Eye contact: Bathe the eye with running water for 15 minutes.

Ingestion: Rinse mouth with water. Give nothing to eat or drink. Do not induce vomiting. Consult a doctor.

Inhalation: Move to fresh air in case of accidental inhalation of vapours.

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

Skin contact: Severe burns may occur.

Eye contact: May cause permanent damage. May cause permanent blindness.

Ingestion: If ingested severe burns of the mouth and throat, as well as danger of perforation of the oesophagus and the stomach.

Inhalation: Symptoms are mucosal irritations, cough, shortness of breath. Possible damages of respiratory tract.

Delayed / immediate effects: Further information: the following applies to zinc compounds in the general: only slightly absorbable via the gastrointestinal tract. Adstringent effect on mucous membranes. Metal-fume fever after inhalation of large quantities. the following applies to inorganic bromides in general: the uptake of large quantities as a result of misuse or improper handling leads to tiredness, agitation, spasms.

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

Section 5: Fire-fighting measures

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5.1. Extinguishing media

Extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes of hydrogen bromide.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid substance contact. Avoid inhalation of dust. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Observe Label Precautions.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Storage temperature 15-25°C Tightly Closed. Dry.

7.3. Specific end use(s)

Specific end use(s): Apart from uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Hand protection: Nitrile rubber gloves 0.11mm Break through time 480 Min

Eye protection: Tightly fitting safety goggles.

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Skin protection: Protective clothing. Wash hands before breaks and after work.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Crystals

Colour: White

Odour: Odourless

Evaporation rate: No data available

Oxidising: No data available

Solubility in water: 4.470 g/l at 20°C

Also soluble in: No data available.

Viscosity: No data available

Viscosity test method: No data available.

Boiling point/range°C: 697°C at 1.013 hPa

Melting point/range°C: 394°C

Part.coeff. n-octanol/water: 0,33

Relative density: 4,2 g/cm³ at 20 °C

pH: 4 at 20°C

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Has a Corrosive affect

10.2. Chemical stability

Chemical stability: Sensitive to moisture

10.3. Possibility of hazardous reactions

Hazardous reactions: sodium, Potassium, strong oxidizing agents. a risk of explosion and/or of toxic gas formation exists with the following substances.

10.4. Conditions to avoid

Conditions to avoid: Exposure to moisture.

10.5. Incompatible materials

Materials to avoid: Metals.

10.6. Hazardous decomposition products

Haz. decomp. products: In the event of fire see section 5.

Section 11: Toxicological information

11.1. Information on toxicological effects

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Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data

Symptoms / routes of exposure

Skin contact: Severe burns may occur.

Eye contact: May cause permanent damage. May cause permanent blindness.

Ingestion: If ingested severe burns of the mouth and throat, as well as danger of perforation of the oesophagus and the stomach.

Inhalation: Symptoms are mucosal irritations, cough, shortness of breath. Possible damages of respiratory tract.

Delayed / immediate effects: Further information: the following applies to zinc compounds in the general: only slightly absorbable via the gastrointestinal tract. Adstringent effect on mucous membranes. Metal-fume fever after inhalation of large quantities. the following applies to inorganic bromides in general: the uptake of large quantities as a result of misuse or improper handling leads to tiredness, agitation, spasms.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: Partition coefficient: n-octanol/water. log Pow:0.33. Method: (calculated).
Bioaccumulation is not expected (log Pow <1). (Lit.)

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT substance.

12.6. Other adverse effects

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

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Section 14: Transport information

14.1. UN number

UN number: UN3260

14.2. UN proper shipping name

Shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: No

14.6. Special precautions for user

Tunnel code: E

Transport category: 3

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3: H314: Causes severe skin burns and eye damage.

H410: Very toxic to aquatic life with long lasting effects.

R34: Causes burns.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.