Calamine USP Powder

Safety Data Sheet

Date of issue: 02/07/2017 Revision date: 04/05/2018

SECTION 1: Identification

1.1. Product identifier

Product form	:	Mixture
Trade name	:	Calamine USP Powder
Chemical name	:	Calamine, zinc oxide, zinc monoxide
Product group	:	Trade product
CAS #	:	8011-96-9

1.2. Recommended use and restrictions on use

Recommended uses and restrictions : Astringent and skin protection

1.3. Supplier Information

Distributor:
Chemistry Connection
253 Sturgis Rd
Conway, AR 72034
(501) 470-9689
contact@thechemistryconnection.com
www.chemistryconnection.com

1.4. Emergency telephone number

Emergency number : (888) 583-7738 (8am - 5pm CST Mon-Fri)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS-CA)

Hazardous to the aquatic environment — Acute Hazard, Category 1 H400
Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-CA labelling

Hazard pictograms (GHS-CA) :

GHS09

Signal word (GHS-CA) : Warning

Hazard statements (GHS-CA) : H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS-CA) : P273 - Avoid release to the environment
P391 - Collect spillage
P501 - Dispose of contents / container to a hazardous or special waste collection point in accordance with municipal, provincial and federal regulations.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-CA)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Full text of H-statements: see section 16

3.2. Mixtures

Name	Chemical name/Synonyms	Product identifier	%wt/wt	Classification (GHS-CA)
Zinc oxide	Zinc oxide	(CAS No) 1314-13-2	98 - 100	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Ferric oxide	Ferric oxide	(CAS No) 1309-37-1	0.1- 1.0	Not classified

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Unsuitable extinguishing media

No additional information available

5.3. Specific hazards arising from the hazardous product

No additional information available

5.4. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.2. Methods and materials for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Incompatible materials : Can react violently when mixed with chlorinated rubber, magnesium, linseed oil, strong bases, and strong acids.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Calamine USP Powder

USA - ACGIH	ACGIH TWA (mg/m³)	2 mg/m³
USA - ACGIH	ACGIH STEL (mg/m³)	10 mg/m³
USA - ACGIH	Remark (ACGIH)	Metal fume fever

Appropriate engineering controls : Ensure good ventilation of the work station.

8.3. Individual protection measures/Personal protective equipment

Hand protection : Protective gloves.

Eye protection : Safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection	:	In case of insufficient ventilation, wear suitable respiratory equipment. Use appropriate respiratory protection. Avoid dust dispersal
Environmental exposure controls	:	Dispose of waste in accordance to Federal, provincial and municipal regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Appearance	:	No data available
Molecular mass	:	81.39 g/mol
Colour	:	Pink odourless powder
Odour	:	No data available
Odour threshold	:	No data available
pH	:	6.9 - 7.4
pH solution	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Relative evaporation rate (ether=1)	:	No data available
Melting point	:	1975 °C (>1000 °C; 1013 hPa)
Freezing point	:	Not applicable
Boiling point	:	Sublime
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Non flammable.
Vapour pressure	:	< 0.1 hPa (20 °C)
Vapour pressure at 50 °C	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	5.68 (22 °C)
Relative density of saturated gas/air mixture	:	No data available
Density	:	5680 kg/m³
Relative gas density	:	No data available
Solubility	:	Water: 0.00029 g/100ml
Log Pow	:	1.53 (Estimated value)
Log Kow	:	No data available
Viscosity, kinematic	:	Not applicable
Viscosity, kinematic (calculated value) (40 °C)	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	Not applicable
Lower explosive limit (LEL)	:	No data available
Upper explosive limit (UEL)	:	No data available

9.2. Other information

VOC content	:	Not applicable (inorganic)

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	:	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reactions known under normal conditions of use.
Conditions to avoid	:	None under recommended storage and handling conditions (see section 7).
Hazardous decomposition products	:	At very high temperatures can emit toxic zinc fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Not classified

Acute toxicity (inhalation)	:	Not classified
Skin corrosion/irritation	:	Not classified
Serious eye damage/irritation	:	Not classified
Respiratory or skin sensitization	:	Inhalation of freshly formed zinc oxide fumes may cause a flu like illness called metal fume fever. Zinc oxides fumes appear only upon the formation of zinc oxide from zinc metal. Symptoms occurs 4 to 12 hours after exposure. Severe over exposure may result in bronchitis or pneumonia with a blueish tint to the skin.
Ingestion	:	Ingestion of large amounts can cause vomiting and gastro-enteritis. The toxic dose is 2 g/kg and over
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Specific target organ toxicity (single exposure)	:	Not classified
Specific target organ toxicity (repeated exposure)	:	Repeated or prolonged exposure to zinc oxide fumes may cause conjunctivitis.
Aspiration hazard	:	Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Zinc Oxide (1314-13-2)

Acute LC50 fish	320 ppm (96 h, lepomis macrochirus, Fresh water, Experimental value)
EC50 Daphnia	98µg/l (48 h, Daphnia magna, neonate, Fresh water, Experimental value)
Acute EC50 (algae)	0.042 mg/l (72 h, pseudokirchneriella subcapitata, fresh water, Experimental growth phase)

12.2. Persistence and degradability

Calamine USP Powder

ThOD	Not applicable (inorganic)

12.3. Bioaccumulative potential

Calamine USP Powder

Log Pow	1.53 (Estimated value)
Log Koc	log Koc,2.2; Literature study

12.4. Mobility in soil

Calamine USP Powder

Log Pow	1.53 (Estimated value)
Log Koc	log Koc,2.2; Literature study

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG

TDG

Not regulated for transport

DOT

Not regulated for transport

14.3. Air and sea transport

IMDG

UN-No. (IMDG)	:	3077
Proper Shipping Name (IMDG)	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Calamine USP Powder)

Class (IMDG)	:	9 - Miscellaneous dangerous substances and articles
Packing group (IMDG)	:	III - substances presenting low danger
Limited quantities (IMDG)	:	5 Kg

IATA

UN-No. (IATA)	:	3077
Proper Shipping Name (IATA)	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Calamine USP Powder)
Class (IATA)	:	9 - Miscellaneous Dangerous Goods
Packing group (IATA)	:	III - Minor Danger

SECTION 15: Regulatory information

15.1. National regulations

No additional information available

15.2. International regulations

Calamine USP Powder

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

SECTION 16: Other information

Date of issue	:	07/02/2017
Revision date	:	04/05/2018

Full text of H-statements:

H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects