

1 PRODUCT & COMPANY IDENTIFICATION

Product Name:	L-GLUTATHIONE REDUCED	Supplier:	ASES CHEMICAL WORKS.
Synonyms:	L-Glutathione, Glutinal, Deltathione, Neuthion, Copren, Glutide	Address:	Brahm Bagh, Jalori Gate Jodhpur - 342001 Rajasthan-India
INCI Name:	Glutathione	Phone:	+91-9636889954
CAS Number:	70-18-8	Web:	www.ases.in
Formula:	C ₁₀ H ₁₇ N ₃ O ₆ S	Email :	ecom@ases.in
Product Form:	Powder		
Product Use:	Manufacture of substances		

2 HAZARDS IDENTIFICATION

Classification of the substance or mixture: Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008
Label elements : Not a hazardous substance or mixture.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	EC No.	Molecular Weight	Weight%
L-Glutathione reduced	70-18-8	200-725-4	3.7.32 g/mol	99%

4 FIRST AID MEASURES

Eye Contact:	Flush eyes with water as a precaution.
Skin:	Wash off with soap and plenty of water.
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water

5 FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray, water jet, foam, dry powder, carbon dioxide.
Special hazards arising from the substance or mixture : Formation of toxic gases is possible during heating or in case of fire.
Advice for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
Further information: No data available.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions : Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.
Environmental precautions : Do not let product enter drains.
Methods for containment and cleaning up : Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

7 HANDLING & STORAGE

Precautions: Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.
Storage: Store in a tightly closed container. Store in a dry area. Keep refrigerated. (Store below 4°C/39°F.)

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ingredients with workplace control parameters.
Skin and body protection: Wear appropriate protective gloves to prevent skin exposure.
Eye protection : Goggles or safety glasses with side shields in manufacturing sites.
General hygiene considerations: Wear appropriate protective clothing to prevent skin exposure.

MATERIAL SAFETY DATA SHEET

L-GLUTATHIONE REDUCED

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state :	Powder	Saponification value(mg KOH/g):	Not determined
Color :	White	Flammability (solid, gas):	Not determined
Odor :	Characteristic.	Vapour pressure:	Not determined
Odor threshold :	Not determined	Heavy metals:	Passes
pH :	ca.3 at 10 g/l at 20 °C	Refractive index :	Not determined
Evaporation rate :	Not determined	Assay %:	Not determined
Melting point :	185 – 195°C	Solubility:	Water :at 20 °C soluble
Freezing point :	Not determined	Auto-ignition temperature:	Not determined
Boiling point :	Not determined	Loss on drying %:	Not determined
Acid Value (mg KOH/g):	Not determined	Upper/lower flammability or explosive limits:	Product does not present an explosion hazard

10 STABILITY AND REACTIVITY

Reactivity:	None under normal use conditions
Chemical Stability:	Stable under normal temperature conditions
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	No decomposition if used and stored according to specifications..
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	Nitrogen oxides, carbon monoxide, oxides of sulfur, carbon dioxide..

11 TOXICOLOGICAL INFORMATION

Acute toxicity:	No data available.
Chronic Effects on Humans:	No data available.
Other Toxic Effects on Humans:	No data available.
Special Toxic Effects on Humans:	No data available.

12 ECOLOGICAL INFORMATION

Persistence and Degradability:	Not available.
Ecotoxicity :	Not available.
Other Adverse Effects:	Not available.

13 DISPOSAL CONSIDERATIONS

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14 TRANSPORT INFORMATION

US DOT Shipping Description (Land) :	Not regulated
IMO-IMDG Shipping Description (Sea) :	Not regulated
IATA Shipping Description (Air) :	Not regulated

15 REGULATORY INFORMATION

Chemical Safety Assessment:	This product does not contain any chemical components regulated.
Other :	Not regulated

16 OTHER INFORMATION

Disclaimer & Caution

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and ASES CHEMICAL WORKS assume no liability resulting from its use.