

1. IDENTIFICATION

IDENTIFIER (AS LABELED): L-Glutathione Reduced
RECOMMENDED USE/RESTRICTION: Antioxidant
MANUFACTURER'S NAME: Belle Chemical
ADDRESS: PO Box 21874
Billings, MT 59104
EMERGENCY PHONE: CHEMTREC (800) 262-8200
BUSINESS PHONE: 406-672-5899

Health	0
Fire	0
Reactivity	0

2. HAZARD(S) IDENTIFICATION

HAZARD CLASSIFICATION: Not a hazardous substance or mixture.
SIGNAL WORD: None
HAZARD STATEMENT(S): None
SYMBOL(S): None
PRECAUTIONARY STATEMENT(S): None
HAZARDS NOT CLASSIFIED: None
UNKNOWN ACUTE TOXICITY: Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENT(S)

CHEMICAL NAME	CAS #	% w/w	EXPOSURE LIMITS IN AIR					
			ACGIH		OSHA			NIOSH
			TLV TWA	STEL	PEL	STEL	IDLH	REL
L-Glutathione	70-18-8	≥ 98%	NE	NE	NE	NE	NE	NE

4. FIRST-AID MEASURES

INHALATION: Remove person to fresh air and keep comfortable for breathing. Seek medical attention if irritation persists.
EYES: Hold eyelids open and flush with a steady stream of water for 20 minutes. Seek medical attention if irritation persists.
SKIN: Wash affected area with soap and water. Seek medical attention if irritation persists.
INGESTION: Rinse mouth. **DO NOT INDUCE VOMITING** unless directed by a medical professional. Seek medical attention if unwell.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MATERIALS: Use extinguishing media applicable to the surrounding fire.
SPECIAL EQUIPMENT: Use water spray to cool containers. Wear full protective clothing and self-contained breathing apparatus (SCBA).
SPECIFIC HAZARDS: When heated to decomposition, this product may emit carbon, nitrogen or sulfur oxides.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Contain material and discard according to Federal, State and local regulations.

7. HANDLING and STORAGE

SAFE HANDLING: Wash hands after handling material. Do not eat, drink, or smoke while handling material.
SAFE STORAGE: Store in cool, dry, well-ventilated area away from incompatible materials. Keep out of direct sunlight or UV sources.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

ENGINEERING CONTROLS: Use with adequate ventilation in open-atmosphere areas, or sealed containers.
RESPIRATORY: NIOSH-approved respirator
EYE: Face shield and goggles
HAND: Hand protection made of compatible material
BODY: Appropriate for exposure or work environment
OTHER PROTECTIVE MEASURES: Eye wash fluid should be accessible in case of eye irritation due to exposure

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White Powder
PH: Not Applicable
FLASH POINT: Not Established
UEL / LEL: Not Established
RELATIVE DENSITY: Not Established
AUTO-IGNITION: Not Established
ODOR: Not Established
MELT/FREEZE POINT: Not Established
EVAPORATION RATE: Not Established
VAPOR PRESSURE: Not Established
SOLUBILITY(IES): Water
DECOMPOSITION TEMP: Not Established
ODOR THRESHOLD: Not Established
BOILING POINT/RANGE: Not Established
FLAMMABILITY: Not Established
VAPOR DENSITY: Not Established
PARTITION COEFFICIENT: Not Established
VISCOSITY: Not Established

10. STABILITY AND REACTIVITY

REACTIVITY: Generally non-reactive
CHEMICAL STABILITY: Stable
CONDITIONS TO AVOID: Exposure to light, moisture, contamination
INCOMPATIBLE MATERIALS: Strong oxidizers
HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Not considered toxic.
NTP/IARC SUSPECTED CARCINOGEN: Not suspected.
SYMPTOMS OF EXPOSURE: No symptoms of overexposure.
TOXICITY ESTIMATE(S): ORAL: > 5,000 mg/kg

12. ECOLOGICAL INFORMATION

ECOTOXICITY: Not considered toxic
PERSISTENCE AND DEGRADABILITY: Biodegradable
BIOACCUMULATIVE POTENTIAL: Product is biodegradable and non-accumulative
MOBILITY IN SOIL: Not tested as a whole
OTHER ADVERSE EFFECTS: None

13. DISPOSAL CONSIDERATIONS

SAFE HANDLING AND DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations.

14. TRANSPORTATION INFORMATION

UN NUMBER/SHIPPING NAME: Not regulated as dangerous goods
TRANSPORT HAZARD CLASS(ES): No requirements
DOT: Not regulated as dangerous goods
PACKING GROUP: No requirements
ENVIRONMENTAL HAZARDS: No
TRANSPORT IN BULK: None
SPECIAL PRECAUTIONS: None

15. REGULATORY INFORMATION

SARA 302: No requirements.
SARA 311/312: No requirements.
SARA 313: No requirements.
TSCA STATUS: All constituents.
CALIFORNIA PROPOSITION 65: Not found.
CERCLA (RQ): No requirements.
STATE REGULATIONS: L-Glutathione (NJ, PA)
EUROPEAN INVENTORY: Constituents of this product are listed on EINECS

16. OTHER INFORMATION

The information and recommendations herein are taken from data contained in independent industry recognized references including NIOSH, OSHA, ANSI, and NFPA. No guarantee, express or implied, and no liability is assumed by Belle Chemical in conjunction with the use of this information.

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