

CAS-No.: 70-18-8 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product form	: Substance
	:
CAS-No.	: 70-18-8
Product code	: 03970
Chemical structure	

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec

: Industrial For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie.com

1.4. Emergency telephone number

: + 91 22 6663 6663 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

Emergency number

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

Safety Data Sheet

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] No labelling applicable

2.3.	Other	hazards	

No additional information available

SECTION 3: Composition/information on ingredients		
3.1.	Substances	
Name		: GLUTATHIONE (REDUCED)FOR BIOCHEMISTRY
CAS-No).	: 70-18-8

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

3.2. Mixtures Not applicable

SECTION 4: F	irst aid measures	
4.1. Desci	iption of first aid measures	S
First-aid measu	ures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measu	ures after skin contact	: Gently wash with plenty of soap and water. Wash contaminated clothing before reuse.
First-aid measu	ures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measu	ures after ingestion	: Rinse mouth out with water. Do not induce vomiting.
4.2. Most	important symptoms and e	effects, both acute and delayed
No additional in	nformation available	
4.3. Indica	ation of any immediate med	dical attention and special treatment needed
Treat symptom	atically.	
SECTION 5: F	irefighting measures	
5.1. Exting	guishing media	
Suitable exting	uishing media	: Water spray. Foam. Dry powder. Carbon dioxide.
Unsuitable exti	nguishing media	: Do not use a heavy water stream.
5.2. Speci	al hazards arising from the	e substance or mixture
No additional in	nformation available	
5.3. Advic	e for firefighters	
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.		

GLUTATHIONE (REDUCED)FOR BIOCHEMISTRY Safety Data Sheet

SECTIC	ON 6: Accidental release measures	S
6.1.	Personal precautions, protective	e equipment and emergency procedures
6.1.1.	For non-emergency personnel	
Emerge	ncy procedures	: Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
	ve equipment	: Use personal protective equipment as required.
	• •	: Ventilate area.
Lineige	ncy procedures	
6.2.	Environmental precautions	
Avoid re	elease to the environment.	
6.3.	Methods and material for contain	nment and cleaning up
Methods	s for cleaning up	: Collect spillage. On land, sweep or shovel into suitable containers.
6.4.	Reference to other sections	
No addi	tional information available	
SECTIC	N 7: Handling and storage	
7.1.	Precautions for safe handling	
Precaut	ions for safe handling	: Avoid contact with skin and eyes. Do not breathe vapours.
Hygiene	e measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2.	Conditions for safe storage, incl	uding any incompatibilities
Storage	conditions	: Keep container tightly closed.
7.3.	Specific end use(s)	
No addi	tional information available	
SECTIC	N 8: Exposure controls/personal	protection
0.4		
8.1.	Control parameters	
No addi	tional information available	

8.2. Exposure controls		
Hand protection	: Protective gloves	
Eye protection	: Chemical goggles or safety glasses	
Skin and body protection	: Wear suitable protective clothing	
Respiratory protection	: [In case of inadequate ventilation] wear respiratory protection.	
SECTION 9: Physical and chemical properties		
9.1. Information on basic phy	vsical and chemical properties	
Physical state	: Solid	
Molecular mass	: 307.33 g/mol	
Colour	: White powder.	
Odour	: odourless.	

GLUTATHIONE (REDUCED)FOR BIOCHEMISTRY Safety Data Sheet

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Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 192 - 195 °C
Freezing point	: No data available
Boiling point	: No data available
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
Relative density	: No data available
Solubility	: No data available
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.	Ot	her	inf	ormatic	n	

No additional information available

SECTIO	DN 10: Stability and reactivity
10.1.	Reactivity
No addi	tional information available
10.2.	Chemical stability
Stable ι	under normal conditions.
10.3.	Possibility of hazardous reactions
No addi	itional information available
10.4.	Conditions to avoid
Direct s	unlight. Extremely high or low temperatures.
10.5.	Incompatible materials
No addi	itional information available
10.6.	Hazardous decomposition products
No add	itional information available

Safety Data Sheet

SECTION 11: Toxicological information

11.1. Information on toxicological	effects
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information
12.1. Toxicity
No additional information available
12.2. Persistence and degradability
No additional information available
12.3. Bioaccumulative potential
No additional information available
12.4. Mobility in soil
No additional information available
12.5. Results of PBT and vPvB assessment
No additional information available
12.6. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

Safety Data Sheet

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	
UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
-FFF 3 ()	
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
ADN	
Transport hazard class(es) (ADN)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

Safety Data Sheet

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

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

GLUTATHIONE (REDUCED)FOR BIOCHEMISTRY is not on the REACH Candidate List GLUTATHIONE (REDUCED)FOR BIOCHEMISTRY is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

Cermany		
Reference to AwSV	:	Water hazard class (WGK) 2, significant hazard to water (Classification according to AwSV; ID No. 7617)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	:	Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherlands		
SZW-lijst van kankerverwekkende stoffen	:	The substance is not listed
SZW-lijst van mutagene stoffen	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	:	The substance is not listed

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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