HL-60 Whole Cell Lysate

Cat#: orb348702 (MSDS)

1. IDENTIFICATION

Product identifier
Product Name HL-60 whole cell lysate

Other means of identification
Registration Number(s) No information available

Recommended use of the chemical and restrictions on use
Recommended use For research use only. Not for use in diagnostic procedures

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
Skin corrosion/irritation Category 3
GHS Label elements, including precautionary statements
Signal word Warning

Hazard statements
Causes mild skin irritation
Precautionary Statements - Prevention
Wear protective gloves/protective clothing/eye protection/face protection
Precautionary Statements – Response Skin
If skin irritation occurs: Get medical advice/attention
Other hazards which do not result in classification
No information available
General Hazards No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance
Not applicable
Mixture

Chemical name	CAS No	Weight-%
Glycerol (glycerin, glycerine) 56-81-5	56-81-5	10 - <25
Sodium lauryl sulfate 151-21-3	151-21-3	1 - <3

4. FIRST AID MEASURES

Description of necessary first aid measures
Inhalation Remove to fresh air.
Skin contact Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Ingestion Rinse mouth.
For emergency responders
Self-protection of the first aider No information available.
Most important symptoms/effects, acute and delayed
Symptoms Prolonged contact may cause redness and irritation. See Section 2.2 for more information.
Indication of immediate medical attention and special treatment needed, if necessary
Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards arising from the chemical
No information available.
Special protective actions for fire-fighters
Special protective equipment and precautions for fire-fighters
Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Personal precautions Ensure adequate ventilation.

Environmental precautions
Environmental precautions See Section 12 for additional Ecological Information.
Methods and material for containment and cleaning up
Methods for containment Prevent further leakage or spillage if safe to do so.
Methods for cleaning up Pick up and transfer to properly labeled containers.
Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling
Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities
Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	European Union	Gulf Cooperation Council OELS
Glycerol (glycerin, glycerine) 56-81-5	-	TWA: 15 mg/m^3 mist, total particulate TWA: 5 mg/m^3 mist, respirable fraction (vacated) TWA: 10 mg/m^3 mist, total particulate (vacated) TWA: 5 mg/m^3 mist, respirable fraction	-	-

Chemical name	China	Japan Society of Occupational Health	OEL	Australia	Taiwan
Glycerol (glycerin, glycerine) 56-81-5	-	-	TWA: 10 mg/m^3	10 mg/m^3	-

Appropriate engineering controls
Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment
Eye/face protection Use suitable eye protection.
Skin and body protection Wear suitable protective clothing.
Hand protection Wear suitable gloves. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.
Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties
Physical state Liquid
Appearance aqueous solution **Odor** Odorless
Color clear **Odor threshold** No information available
Property Values Remarks • Method
Melting point / freezing point No data available None known
Boiling point / boiling range No data available None known

Flammability (solid, gas) No data available None known
Flammability Limit in Air None known
Upper flammability or explosive limits No data available
Lower flammability or explosive limits No data available
Flash point No data available None known
Autoignition temperature No data available None known
Decomposition temperature None known
pH 7.20
pH (as aqueous solution) No data available No information available
Kinematic viscosity No data available None known
Dynamic viscosity No data available None known
Water solubility No data available None known
Solubility(ies) No data available None known
Partition coefficient No data available None known
Vapor pressure No data available None known
Relative density No data available None known
Bulk density No data available
Liquid Density No data available
Vapor density No data available None known
Particle characteristics
Particle Size No information available
Particle Size Distribution No information available
Other information
Oxidizing properties No information available
Explosive properties No information available

10. STABILITY AND REACTIVITY

Reactivity No information available.
Chemical stability
Stability Stable under normal conditions.

Explosion data
Sensitivity to mechanical impact None
Sensitivity to static discharge None.
Possibility of hazardous reactions
Possibility of hazardous reactions None under normal processing.
Conditions to avoid None known based on information supplied.
Incompatible materials None known based on information supplied.
Hazardous decomposition products
Hazardous decomposition products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure
Product Information
Inhalation Specific test data for the substance or mixture is not available.
Eye contact Specific test data for the substance or mixture is not available.
Skin contact Specific test data for the substance or mixture is not available. Causes mild skin irritation.
Ingestion Specific test data for the substance or mixture is not available.
Symptoms Prolonged contact may cause redness and irritation.
Numerical measures of toxicity

Acute toxicity
Unknown acute toxicity 1 % of the mixture consists of ingredient(s) of unknown toxicity 1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

The following values are calculated based on chapter 3.1 of the GHS document
ATEmix (oral) 63,692.30 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Glycerol (glycerin, glycerine)	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 2.75 mg/L (Rat) 4 h
Sodium lauryl sulfate	= 1288 mg/kg (Rat)	= 200 mg/kg (Rabbit)	> 3900 mg/m^3 (Rat) 1 h

Delayed and immediate effects and also chronic effects from short and long term exposure
Skin corrosion/irritation Classification based on data available for ingredients. May cause skin irritation.
Serious eye damage/irritation No information available.
Respiratory or skin sensitization No information available.
Germ cell mutagenicity No information available.
Carcinogenicity No information available.
Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Toxicity
0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Crustacea
Glycerol (glycerin, glycerine)	-	LC50: 51 - 57mL/L (96h, Oncorhynchus mykiss)	-
Sodium lauryl sulfate	EC50: 3.59 - 15.6mg/L (96h, Pseudokirchneriella subcapitata) EC50: 30 - 100mg/L (96h, Desmodesmus subspicatus) EC50: =117mg/L (96h, Pseudokirchneriella subcapitata) EC50: =53mg/L (72h, Desmodesmus subspicatus)	LC50: 10.2 - 22.5mg/L (96h, Pimephales promelas) LC50: 10.8 - 16.6mg/L (96h, Poecilia reticulata) LC50: 13.5 - 18.3mg/L (96h, Poecilia reticulata) LC50: 15 - 18.9mg/L (96h, Pimephales promelas) LC50: 22.1 - 22.8mg/L (96h, Pimephales promelas) LC50: 4.06 - 5.75mg/L (96h, Lepomis macrochirus) LC50: 4.2 - 4.8mg/L (96h, Lepomis macrochirus) LC50: 4.3 - 8.5mg/L (96h, Oncorhynchus mykiss) LC50: 5.8 - 7.5mg/L (96h, Pimephales promelas) LC50: 6.2 - 9.6mg/L (96h, Pimephales promelas) LC50: 8 - 12.5mg/L (96h, Pimephales promelas) LC50: 9.9 - 20.1mg/L (96h, Brachydanio rerio) LC50: =1.31mg/L (96h, Cyprinus carpio) LC50: =4.2mg/L (96h, Oncorhynchus mykiss) LC50: =4.5mg/L (96h, Lepomis macrochirus) LC50: =4.62mg/L (96h, Oncorhynchus mykiss) LC50: =7.97mg/L (96h, Brachydanio rerio)	EC50: =1.8mg/L (48h, Daphnia magna)

Persistence and degradability

No information available.

Bioaccumulative potential

There is no data for this product.

Mobility

No information available.

Chemical name	Partition coefficient
Glycerol (glycerin, glycerine)	-1.76
Sodium lauryl sulfate	1.6

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues/unused products
Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging Do not reuse empty containers.

14. TRANSPORT INFORMATION

IMDG Not regulated
Transport in bulk according to
Annex II of MARPOL 73/78 and the IBC Code No information available
ICAO (air) Not regulated
IATA Not regulated
DOT Not regulated
TDG Not regulated
Special precautions for user Special provisions from the regulations relative to the specified mode of transport are noted by numeric code. Refer to the regulations for the full text of special provisions.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
International Regulations
The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable
The Stockholm Convention on Persistent Organic Pollutants Not applicable
The Rotterdam Convention Not applicable
International Inventories
TSCA Does not comply
DSL/NDSL Does not comply
EINECS/ELINCS Does not comply
ENCS Does not comply
IECSC Does not comply
KECL Does not comply
PICCS Does not comply
AICS Does not comply

Chemical name	TSCA	DSL	NDSL	EINECS	ELINCS
Glycerol (glycerin, glycerine)	X	X	-	X	-
Sodium lauryl sulfate	X	X	-	X	-

Chemical name	ENCS	IECSC	KECL	PICCS	AICS
Glycerol (glycerin, glycerine)	X	X	X	X	X
Sodium lauryl sulfate	X	X	X	X	X

Legend: X - Listed
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances