MSDS Number : 780C

# RESEARCH-LAB FINE CHEM INDUSTRIES

An ISO 9001:2008 certified company

# MATERIAL SAFETY DATA SHEET

## Section 1 - Chemical Product and Company Identification

### Product Name : GLYCERINE

**Synonyms :** 1,2,3-Propanetriol; Glycerin
**CAS No. :** 56-81-5
**Molecular Weight :** 92,09
**Chemical Formula:** $C_3H_8O_3$
**Product Codes :** 780,780A,780C

**Brand : RESEARCH-LAB**

### Company Identification :-

**MARKETING OFFICE :**
1, Devkaran Mansion, 3rd Floor, 79, Princess Street,
**MUMBAI-400 002.** (Maharashtra, India)
●Telefax : (022) 2206 2623/2203 5501.
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## Section 2 - Composition, Information on Ingredients

| Ingredient | CAS No | Percent | Hazardous |
|---|---|---|---|
| Glycerin | 56-81-5 | 98-100% | No |

## Section 3 - Hazardous Identification

Classification of the substance or mixture
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
This substance is not classified as dangerous according to Directive 67/548/EEC.

## Section 4 - First Aid Measures

4.1 Description of first aid measures
General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## Section 5 - Fire Fighting Measures

5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2 Special hazards arising from the substance or mixture
Carbon oxides
5.3 Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.
5.4 Further information
no data available

## Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
6.2 Environmental precautions
Do not let product enter drains.
6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## Section 7 - Handling and Storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
hygroscopic
7.3 Specific end use(s)
A part from the uses mentioned in other specific uses are stipulated

## Section 8 - Exposure Controls, Personal Protection

8.1 Control parameters
Components with workplace control parameters
8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment
Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Body Protection
impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure
Do not let product enter drains.

## Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties
Appearance Form : liquid
Colour : clear
Odour : odourless
Odour Threshold : no data available
pH : 5,5 - 8
Melting point/freezing point : Melting point/range : 20 °C - lit.
Initial boiling point and boiling range : 182 °C at 27 hPa - lit.
Flash point : 160 °C - closed cup
Evapouration rate : no data available
Flammability (solid, gas) : no data available
Upper/lower flammability or explosive limits : Lower explosion limit : 0,9 %(V)
Vapour pressure : 0,0033 hPa at 50 °C
Vapour density : 3,18 - (Air = 1.0)
Relative density : 1,25 g/cm3
Water solubility : soluble
Partition coefficient : noctanol/water : no data available
Auto-ignition temperature : no data available
Decomposition temperature : no data available
Viscosity : no data available
Explosive properties : no data available
Oxidizing properties : no data available
9.2 Other safety information
Surface tension : 63,4 mN/m at 20 °C
Relative vapour density : 3,18 - (Air = 1.0)

## Section 10 - Stability and Reactivity

10.1 Reactivity
no data available
10.2 Chemical stability
Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions
no data available
10.4 Conditions to avoid
no data available
10.5 Incompatible materials
Strong bases, Strong oxidizing agents
10.6 Hazardous decomposition products
Other decomposition products - no data available

## Section 11 - Toxicological Information

Information on toxicological effects
Acute toxicity
LD50 Oral - rat - 12.600 mg/kg
LD50 Dermal - rabbit - > 10.000 mg/kg
Skin corrosion/irritation
Skin - rabbit
Result: Mild skin irritation - 24 h
Serious eye damage/eye irritation
Eyes - rabbit
Result: Mild eye irritation - 24 h
Respiratory or skin sensitisation
no data available
Germ cell mutagenicity
no data available
Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity
no data available
Specific target organ toxicity - single exposure
no data available
Specific target organ toxicity - repeated exposure
no data available
Aspiration hazard
no data available
Additional Information
RTECS: MA8050000
Prolonged or repeated exposure may cause:, Nausea, Headache, Vomiting
Kidney - Irregularities - Based on Human Evidence

## Section 12 - Ecological Information

12.1 Toxicity
no data available
12.2 Persistence and degradability
no data available
12.3 Bioaccumulative potential
no data available
12.4 Mobility in soil
no data available
12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.6 Other adverse effects
no data available

## Section 13 - Disposal Considerations

Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging
Dispose of as unused product.

## Section 14 - Transport Information

14.1 UN number
ADR/RID: - IMDG: - IATA: -
14.2 UN proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods
14.3 Transport hazard class(es)
ADR/RID: - IMDG: - IATA: -
14.4 Packaging group
ADR/RID: - IMDG: - IATA: -
14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no
14.6 Special precautions for user
no data available

## Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## Section 16 - Additional Information

Not Regulated