



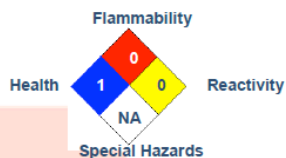
## MACROLUB 140 MATERIAL SAFETY DATA SHEET

### Hazard Information

**Hazard classification**

- 0 Minimum
- 1 Light
- 2 Moderate
- 3 Serious
- 4 Severe

### Safety Diamond



### Section I. General Data.

a) Date of elaboration: 15/JANUARY/2011	b) Last updated: JULY/2012
c) Manufacturer: Macropol S.A. de C.V.	
d) Address: Camino a Lago de Guadalupe #74 San Miguel Xochimanga, Atizapan de Zaragoza. State of Mexico, Mex.	
e) Emergency number: 01 55-1083-5800 or to the SETIQ's phone: 01800-002-1400	

### Section II. Data of the chemical substance.

a) Chemical name or code:	Glyceryl monostearate
b) Trade name:	Macrolub 140
c) Chemical family:	Fatty Acid Esters
d) Synonym (s):	NS
e) Other relevant data:	Emulsifying agent in the food industry, it's used as a lubricant and softener in the textile and cosmetic industries, mold releasing agent in plastics.

### Section III. Identification of the chemical substance and its components.

3.1 Identification of the chemical substance			
Name	CAS NUMBER	EINECS- NUMBER	%
Glyceryl monostearate	31556-31-1		42 Min
Glycerine	56-81-5		<=5.0

### Section IV. Physical and chemical properties.

a) Boiling Point (°C)	NA
b) Melting Point (°C)	54-64
c) Flash Point (°C)	148.8
d) Autoignition Temperature (°C)	--
e) Density (g/cc)	0.910
f) Vapour Density	NS
g) Molecular Weight	358.56
h) Physical State	Solid
i) Color	White to cream
j) Odor	Characteristic
k) Speed of evaporation (butyl acetate=1)	NA
l) Solubility in water	Insoluble
m) Vapour Pressure (mbar @ 20°C)	--
n) Percent Volatile	Non volatile
o) Flammable Limits or explosiveness	
Lower	NA
Upper	NA

### Section V. Fire and explosion hazards.

5.1 Fire extinguishing media:					
Water	<input checked="" type="checkbox"/>	Foam	<input checked="" type="checkbox"/>	CO <sub>2</sub>	<input checked="" type="checkbox"/>
				Dry Chemical Powder	<input checked="" type="checkbox"/>
5.2 Specific personal protective equipment for use in firefighting tasks:					
				Other	<input type="checkbox"/>



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Complete equipment for firefighter.

### 5.3 Special procedures and precautions during the fire fighting:

Use autonomous equipment.

### 5.4 Requirements that lead to another special hazard:

This product doesn't self-ignite in normal atmospheric conditions.

### 5.5 Combustion products that are harmful for the health:

CO and CO<sub>2</sub>

## Section VI. Reactivity Data.

### 6.1 Conditions of stability / Instability

Stable

X

Unstable

### 6.2 Incompatibility (materials to avoid):

Organic peroxides and gaseous Oxygen

### 6.3 Hazardous decomposition products:

CO and CO<sub>2</sub>

### 6.4 Spontaneous polymerization:

Not happen

### 6.5 Other conditions that must to assure during the use of the chemical substance, in order to avoid to react it:

-

## Section VII. Health hazards and first aid measures.

### 7.1 Depending on the route of entry to the organism

#### a) Ingestion

-

#### b) Inhalation

-

#### c) Skin contact

Without symptom of irritation observed.

#### d) Eye contact

-

### 7.2 Chemical substance considered as:

Carcinogenic NS

Mutagenic NS

Teratogenic NS

### 7.3 Additional Information

#### a) LC<sub>50</sub>

NS

#### b) LD<sub>50</sub>

Oral (rat) >10 g/Kg

### 7.4 Emergency and First Aid

#### 7.4.1 Precautionary measures in case of:

##### a) Eye contact

Wash with plenty of water for 15-20 minutes. Get medical help if irritation persists.

##### b) Skin contact

Remove contaminated clothing, wash affected area with soap and plenty of water.

##### c) Ingestion

If swallowed get medical help and report to the doctor of the substance.

##### d) Inhalation

Move the person into fresh air, if have difficulty for breathe. Give artificial respiration immediately in case of have respiratory stoppage.

#### 7.4.2 Other risks or health effects:

-

#### 7.4.3 Antidotes:

-

#### 7.4.4 Other Important Information for primary medical care:

-

## Section VIII. Indications in case of leakage or spillage.

### 8.1 Procedure and immediate precautions:

Collect material and leave it in container for disposal, use proper personal protective equipment, ensure sufficient ventilation, in case of it enters on the sewer, notify to the competent authorities.



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**8.2 Mitigation method:**

Stop spill with dikes of sand or sawdust, keep personnel away and located in favor of the air. Clean the place and collect the product, put it in appropriate containers for containment and disposal.

**Section IX. Special protection specifically for emergency situations.****9.1 Specific personal protective equipment:**

In case of spills and leaks, use goggles of security, face shield and chemical resistant gloves to prevent skin contact and maintain adequate ventilation.

**Section X. Information about transportation. According to:****10.1 Regulations for the Ground Transportation of Hazardous Materials and Residues:**

For its transportation must be hermetically packaged, each package must be properly identified according to current standards. No hazardous material

**10.2 NOM-004-SCT2-1994:**

NS

**10.3 UN Recommendations for the Transport of Dangerous Goods:**

NS

**10.4 The North American Guide to Response In Case of Emergency.**

NS

**Section XI. Information concerning ecology.****11.1 Harms aquatic life and increases the BOD**

Not classified as hazardous for the environment, in an emergency all the recovered material can be reprocessed, for the remains and cleaning of the area, prevent that it entry into sewers, surface water or groundwater.

**Section XII. Special precautions.****12.1 For the handling, transportation and storage:**

Use and store in a cool, dry and well ventilated place (eg, local ventilation system, fans). Keep containers tightly closed when not in use.

**12.2 Other precautions:**

Keep this product in areas with good ventilation, for proper handling wear your personal protective equipment.

NE Not Specified  
NA Not Applicable  
- Not Available