



MACROLUB 312

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:	1/FEBRUARY/2009	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:	Pentaerythritol stearate adipate
b) Trade name:	Macrolub 312
c) Chemical family:	Pentaerythritol esters
d) Synonym (s):	NS
e) Other relevant data:	NS

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

3.1 Identification of the chemical substance

Name	CAS NUMBER	EINECS- NUMBER	%
Pentaerythritol stearate adipate	68130-34-7		100

Section IV. Physical and chemical properties.

a) Boiling Point (°C)		NS
b) Melting Point (°C)		50-60
c) Flash Point (°C)		>150
d) Autoignition Temperature (°C)		NS
e) Density (g/cc)		0.89
f) Vapour Density		NS
g) Molecular Weight		-
h) Physical State		Flakes or powder
i) Color		White to cream
j) Odor		Greasy
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
p) pH		NA
q) Solubility in oil and solvent		NS



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Section V. Fire and explosion hazards.

5.1 Fire extinguishing media:

Water	<input checked="" type="checkbox"/>	Foam	<input checked="" type="checkbox"/>	CO ₂	<input checked="" type="checkbox"/>	Dry Chemical	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
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5.2 Specific personal protective equipment for use in firefighting tasks:
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 CO₂

Section VI. Reactivity Data.

6.1 Conditions of stability / instability

Stable	<input checked="" type="checkbox"/>	Unstable	<input type="checkbox"/>
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6.2 Incompatibility (materials to avoid):
Strong oxidizing agent

6.3 Hazardous decomposition products:
CO and CO₂

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:
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Section VII. Health hazards and first aid measures.

7.1 Depending on the route of entry to the organism

a) Ingestion
Irritation

b) Inhalation
Fumes can cause irritation to the respiratory tract.

c) Skin contact
Mild irritation.

d) Eye contact
Irritation

7.2 Chemical substance considered as:

Carcinogenic	<input type="checkbox"/>	Mutagenic	<input type="checkbox"/>	Teratogenic	<input type="checkbox"/>
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7.3 Additional Information

a) LC₅₀ NS

b) LD₅₀ >2000 mg/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.

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. Get medical help immediately.

7.4.2 Other risks or health effects:
NS

7.4.3 Antidotes:
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7.4.4 Other important information for primary medical care:
NS



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8.1 Procedure and immediate precautions:

Collect the material, absorb it with sand or sawdust and deposit it in containers. Dispose according to federal, municipal or local regulations.

8.2 Mitigation method:

Stop the spill with dikes of sand or sawdust, keep personnel away and located in favor of the air. Clean the place and pick up the product and put it in suitable containers for containment and disposal according to the regulations of the local and federal authorities.

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

In case of spills and leaks, wear completed protective equipment. Use goggles of security, face shield, nitrile gloves.

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:

The vehicle must carry signs indicating the degree of flammability hazard (level 1)

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
Fish LC50: >10,000 mg/l Brachydanio rerio(96 hr)
Easily biodegradable

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 and distant from ignition sources as sparks or flame open.

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