



Tau Chemicals Inc

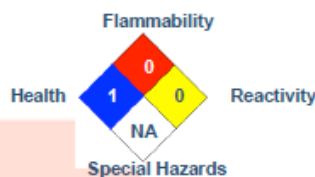
# FLEXIPOL EB

## 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/DECEMBER/2008	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:	Butyl stearate
b) Trade name:	Flexipol EB
c) Chemical family:	Fatty Esters
d) Synonym (s):	Tegester butyl stearate; Butyl Octadecanoate
e) Other relevant data:	-

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

3.1 Identification of the chemical substance			
Name	CAS NUMBER	EINECS- NUMBER	% Weight
Butyl stearate	123-95-5	NS	>85
3.2 Percentage and components names			
Name	CAS NUMBER	UN NUMBER	% Weight
Butyl stearate	123-95-5	NS	>85

**Section IV. Physical and chemical properties.**

a) Boiling Point (°C)	343	
b) Melting Point (°C)	27	
c) Flash Point (°C)	160 (closed cup)	
d) Autoignition Temperature (°C)	355	
e) Density (g/cc)	0.801-0.875 (30°C)	
f) Vapour Density	11-4 (Air=1)	
g) Molecular Weight	340.47 g/mol	
h) Physical State	Liquid	
i) Color	Colorless	
j) Odor	Characteristic	
k) Speed of evaporation (butyl acetate=1)	NS	
l) Solubility in water	Insoluble	
m) Vapour Pressure (mbar @ 20°C)	0	
n) Percent Volatile	NS	
o) Flammable Limits or explosiveness	Lower	NS
	Upper	NS
p) Othe relevant data	Soluble in acetone, ethanol, mineral oils	

**Section V. Fire and explosion hazards.**

5.1 Fire extinguishing media:



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Water	X	Foam	X	CO <sub>2</sub>	X	Dry Chemical Powder	X	Other	-
<b>5.2 Specific personal protective equipment for use in firefighting tasks:</b> Use autonomous equipment, or respirator mask with oxygen tank, wash after use.									
<b>5.3 Special procedures and precautions during the fire fighting:</b> Use curtain or water fog. Don't use water jet as this may cause explosion by impact, cordon off and move away external people during the emergency.									
<b>5.4 Requirements that lead to another special hazard:</b> Slightly flammable in presence of heat.									
<b>5.5 Combustion products that are harmful for the health:</b> CO, CO <sub>2</sub> and irritating fumes.									

## Section VI. Reactivity Data.

6.1 Conditions of stability / instability	Stable	X	Unstable
<b>6.2 Incompatibility (materials to avoid):</b> Oxidizing agents			
<b>6.3 Hazardous decomposition products:</b> CO and CO <sub>2</sub>			
<b>6.4 Spontaneous polymerization:</b> Not happen			
<b>6.5 Other conditions that must to assure during the use of the chemical substance, in order to avoid to react it:</b> -			

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

<b>7.1 Depending on the route of entry to the organism</b>					
a) <b>Ingestion</b> Irritation to the digestive tract and buccal mucosa					
b) <b>Inhalation</b> Irritation to the nostrils, it can cause symptoms of nausea and dizziness.					
c) <b>Skin contact</b> Irritation					
d) <b>Eye contact</b> Irritation					
<b>7.2 Chemical substance considered as:</b>					
Carcinogenic	NS	Mutagenic	NS	Teratogenic	NS
<b>7.3 Additional Information</b>					
a) LC <sub>50</sub>					
b) LD <sub>50</sub> Oral (rat) 32000 mg/Kg					
<b>7.4 Emergency and First Aid</b>					
<b>7.4.1 Precautionary measures in case of:</b>					
a) <b>Eye contact</b> Wash with plenty of water for 15-20 minutes. Get medical help if irritation persists.					
b) <b>Skin contact</b> Remove contaminated clothing, wash affected area with soap and plenty of water.					
c) <b>Ingestion</b> If swallowed, not induce vomiting, if be conscious, rinse mouth and give 2-3 cups of milk or water.					
d) <b>Inhalation</b> Move the person into fresh air, If not breathing give artificial respiration and consult a doctor.					
<b>7.4.2 Other risks or health effects:</b> Never give anything to an unconscious person, move to ventilated place and fresh air.					
<b>7.4.3 Antidotes:</b> -					
<b>7.4.4 Other important information for primary medical care:</b> Show MSDS					

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



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**8.1 Procedure and immediate precautions:**

Cordon off spill area and keep people away.

**8.2 Mitigation method:**

Absorb spill with sand, soil, deposit in containers and dispose it of according to federal, state and local laws.

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

Use respirator mask with cartridge for organic vapors and goggles in case of product combustion. Protective overalls or aprons.

**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:**

No hazardous material

**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**

This product is considered to be readily biodegradable, no toxic for fish on the Canadian Domestic Substance List

Pivotal value for iT (mg/l)	2.43566
Toxicity to fish (LC50 in mg/l) as predicted by Oasis Forecast M v1.10	166,813.8906
Toxicity to fish (LC50 in mg/l) as predicted by PNN	2.43566

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

Keep in a cool and well ventilated place, keep containers tightly closed.

**12.2 Other precautions:**

Use personal protective equipment during handling: goggles, latex gloves, apron and safety shoes.

NE Not Specified

NA Not Applicable

- Not Available

# MACROPOL

## S.A. DE C.V.