

Safety Data Sheet

LITHIUM BENZOATE

Revision date :

Page: 1/7

Version : 3.0

NUMBER

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Chemical Name Lithium benzoate
CAS NO. 553-54-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

1. It is used as nucleating agent during manufacture of Spandex, Elastane, Elasthane (France), Elastan (Germany), Elastano (Spain and Portugal), Elastam (Italy) and Elasthaan (Holland), and is known worldwide as Lycra
2. It is used as catalyst for the polymerization of polypropylene resins.
3. Used as plasticizer and anti oxidant in high temperature lubricants.

Details of the supplier of the safety data sheet

COMPANY

POLYMER ADD (THAILAND) CO., LTD.
106, Chalaremprakiat, Lor 9, Soi 22, Yak
5,Nongbon, Prawet,Bangkok
Bangkok - 10250
Thailand
Telephone : 0804531391
Email - contact@polymeradd.co.th

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Physical and Chemical Hazards Acute toxicity, Oral (Category 4)
Harmful if swallowed.

2.2 Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram



Signal word

Warning.

H302

Harmful if swallowed.

Hazard symbol(s)



R-phrase(s)

R22

Harmful if swallowed.

S-phrase(s)

Safety Data Sheet

LITHIUM BENZOATE

Revision date :

Page: 2/7

Version : 3.0

NUMBER

S22 Do not breathe dust.
S36 Wear suitable protective clothing.

2.3 Other hazards No data available.

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Component	Lithium benzoate
Chemical Name	Lithium benzoate
CAS NO	553-54-8
EC Number	209-042-6
Molecular Formula	C ₇ H ₅ LiO ₂
Molecular Weight	128.05 g/mol.
Concentration	98 % Min

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 Flush eyes with water as a precaution.

If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Safety Data Sheet

LITHIUM BENZOATE

Revision date :

Page: 3/7

Version : 3.0

NUMBER

5.2 **Special hazards arising from the substance or mixture** Carbon oxides, Lithium oxides

5.3 **Advice for firefighters** Wear self contained breathing apparatus for fire fighting if necessary.

5.4 **Further information** No data available.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

7.2 Information about protection against explosions and fires

No data available.

7.3 Conditions for safe storage including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.4 Specific end use(s)

No data available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.2 Exposure control

No data available.

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks

Safety Data Sheet

LITHIUM BENZOATE

Revision date :

Page: 4/7

Version : 3.0

NUMBER

and at the end of workday.

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).

Hands 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

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9 PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance	Form : Fine powder free from visible impurities
b) Odour	Odorless
c) Odour Threshold	No data available.
d) pH (% solution in water)	0
pH	7.00 - 9.00
e) Melting point/freezing point	> 300 Deg C
f) Initial boiling point and boiling range	No data available.
g) Flash point	No data available.
h) Evaporation rate	No data available.
i) Flammability (solid or gas)	No data available.
j) Upper/lower flammability or explosive limits	No data available.
k) Vapour pressure	No data available.
l) Vapour density	4.4
m) Relative density	1.19 g/cm ³
n) Water solubility	33 g/100 ml 25 Deg C
o) Partition coefficient: n-octanol/water	No data available.

Safety Data Sheet

LITHIUM BENZOATE

Revision date :

Page: 5/7

Version : 3.0

NUMBER

p)Autoignition temperature	No data available.
q)Decomposition temperature	375 - 441 Deg C
r)Viscosity	No data available.
s)Explosive properties	No data available.
t)Oxidizing properties	No data available.

9.2 Other safety information

Bulk Density	Tap 0.87 g/cc
--------------	---------------

10 STABILITY AND REACTIVITY

10.1 Reactivity	No data available.
10.2 Chemical stability	No data available.
10.3 Possibility of hazardous reactions	No data available.
10.4 Conditions to avoid	Avoid moisture.
10.5 Incompatible materials	Strong oxidizing agents.
10.6 Hazardous decomposition products	Other decomposition products - no data available.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	LD50 Oral - Mouse - 1.198 mg/kg
Skin corrosion/irritation	No data available.
Serious eye damage/eye irritation	No data available.
Respiratory or skin sensitization	No data available.
Germ cell mutagenicity	No data available.
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.
Signs and symptoms of exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Polymer Add (Thailand) Co; Ltd.

Safety Data Sheet

LITHIUM BENZOATE

Revision date :

Page: 6/7

Version : 3.0

NUMBER

Aspiration hazard	No data available.
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	Harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
RTECS	OJ5720000

12 ECOLOGICAL INFORMATION

12.1 Toxicity	No data available.
12.2 Persistence and degradability	
Biodegradation	
No data available.	
12.3 Bio accumulative potential	No data available.
12.4 Mobility in soil	No data available.
12.5 Results of PBT and vPvB assessment	No data available.
12.6 Other adverse effects	No data available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.
 Contact a licensed professional waste disposal service to dispose of this material.
 Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14 TRANSPORT INFORMATION

14.1 UN number

ADR/RID	IMDG	IATA
-	-	-

14.2 UN proper shipping name

ADR/RID	IMDG	IATA

Safety Data Sheet

LITHIUM BENZOATE

Revision date :

Page: 7/7

Version : 3.0

NUMBER

Not dangerous goods Not dangerous goods 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

IMDG Marine pollutant

IATA

No

No

No

14.6 Special precautions for user

No data available.

15 REGULATORY INFORMATION

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

15.1 Safety health and environmental regulations/legislation specific for the substance or mixture

No data available.

15.2 Chemical Safety Assessment

No data available.

16 OTHER INFORMATION

Month of Creation

March 2023

Month of Revision

March 2027