

Common Name: **LITHIUM CARBONATE**

Synonyms: Dilithium Carbonate; Carbolith

CAS No: 554-13-2

 Molecular Formula: Li_2CO_3

RTK Substance No: 1124

Description: White, light, odorless powder

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
1 - Health 0 - Fire 0 - Reactivity DOT#: None ERG Guide #: None Hazard Class: None	Use dry chemical, CO_2 , water spray or foam as extinguishing agents. POISONOUS GASES ARE PRODUCED IN FIRE including <i>Lithium Oxides</i> . Use water spray to keep fire-exposed containers cool. May ignite combustibles (wood, paper and oil).	Lithium Carbonate reacts violently with FLUORINE. Lithium Carbonate is not compatible with STRONG ACIDS (such as HYDROCHLORIC, SULFURIC and NITRIC); REDUCING AGENTS; COMBUSTIBLES; ORGANICS; OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE); and CALCIUM HYDROXIDE.

SPILL/LEAKS

Isolation Distance:

Spills: 25 meters (75 feet)

Fire: 800 meters (1/2 mile)

Collect powdered material in the most convenient and safe manner and deposit in sealed containers.

Can harm the aquatic environment.

PHYSICAL PROPERTIES

Odor Threshold:	Odorless
Flash Point:	Noncombustible
Vapor Pressure:	0 mm Hg at 68°F (20°C)
Specific Gravity:	2.1 (water = 1)
Water Solubility:	Slightly soluble
Boiling Point:	2,390°F (1,310°C)
Melting Point:	1,144°F (618°C)
pH:	11.2
Molecular Weight:	73.89

EXPOSURE LIMITS

No occupational exposure limits have been established.

PROTECTIVE EQUIPMENT

Gloves:	Rubber
Coveralls:	DuPont Tychem® Polycoat, QC, CPF 1, SL and CPF 2 or equivalent for <i>dry pharmaceutical chemicals</i>
Respirator:	APR with High efficiency filters, or Supplied air

HEALTH EFFECTS

Eyes:	Irritation
Skin:	Irritation, itching and rash
Inhalation:	Nose, throat and lung irritation with coughing and shortness of breath (pulmonary edema) Headache, muscle twitching, confusion and seizures

FIRST AID AND DECONTAMINATION

Remove the person from exposure.

Flush eyes with large amounts of water for at least 15 minutes. Remove contact lenses if worn.

Quickly remove contaminated clothing and wash contaminated skin with large amounts of soap and water.

Begin artificial respiration if breathing has stopped and CPR if necessary.

Transfer to a medical facility.

Medical observation is recommended as symptoms may be delayed.