

TECHNICAL DATA SHEET

Date of Issue: 2018/06/05

Lithium Peroxide

CAS-No. 12031-80-0

EC-No. 234-758-0

Molecular Formula Li_2O_2

Product Number 401622

APPLICATION

Hardener for the polymerization of special plastics. Regeneration of the air, in space technology. It absorbs CO_2 and releases subsequently O_2 . Raw material for the production of high purity lithium oxide (Li_2O).

SPECIFICATION

Li_2O_2 min. 94 %

PHYSICAL PROPERTIES

Appearance powder
Color colorless to light yellow
Melting point/ range (Decomposes on heating.)
Density 2.3 g/cm³ at 20 °C
Bulk density 350 kg/m³
Water solubility (Decomposes on contact with water.)
Molecular weight 45.88 g/mol

Additional Physical Properties Heat of solvation (20 °C): 30.1 kJ/mole

Active oxygen content: 34.9 %

Thermal decomposition (oxygen partial pressures):

T (°C)	50	120	150	200
P (mbar)	15	170	360	1050

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation and its subsidiaries and affiliates. It is the responsibility of the user to comply with all applicable laws and regulations and to provide for a safe workplace. The user should consider any health or safety hazards or information contained herein only as a guide, and should take those precautions which are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patent.

Technical data sheets may change frequently. You can download the latest version from our website www.albemarle-lithium.com. Please contact us at www.albemarle-lithium.com/contact with questions.

HANDLING & STORAGE

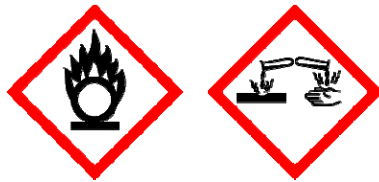
Storage Under exclusion of air, the product may be stored at room temperature for several months. Pay attention to official safety regulations (see also: "Transport regulations").

TRANSPORT & PACKAGING

UN number 1472

ADR	Class: 5.1	PG: II	Label: 5.1
RID	Class: 5.1	PG: II	Label: 5.1
IMDG	Class: 5.1	PG: II	Label: 5.1
IATA_C	Class: 5.1	PG: II	Packing instruction (cargo aircraft): 562
IATA_P	Class: 5.1	PG: II	Packing instruction (passenger aircraft): 558

Hazard pictograms



Signal Word Danger

H&P Phrases See Safety Data Sheet

Labelling The labelling is according to EU-GHS classification ((EG) 1272/2008) and may vary in other countries. Please refer to the respective Safety Data Sheet for your country.

Packaging

50kg polyethylene bag in steel drum. Smaller packing units on request.

OTHER INFORMATION

Further Related Documents Safety Data Sheet

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