TECHNICAL DATA SHEET

Date of Issue: 2025/03/10

Lithium Peroxide

CAS-No.	12031-80-0
EC-No.	234-758-0
REACH No.	01-2120897061-53-0000
Molecular formula	Li2O2
Product number	10000107, 10001447

APPLICATION

Hardener for the polymerization of special plastics. Regeneration of the air, in space technology. It absorbs CO2 and releases subsequently O2. Raw material for the production of high purity lithium oxide (Li2O).

SPECIFICATION

Li2O2	min. 94 %

PHYSICAL PROPERTIES

Appearance	powder
Color	colorless to yellow
Melting point/range	(Decomposes before melting.)
Density	2.3 g/cm3 at 20 °C
Bulk density	350 kg/m3
Water solubility	(Not applicable)

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.

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Molecular weight 45.88 g/mol

HANDLING & STORAGE

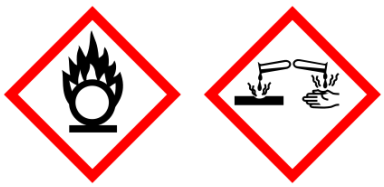
Storage Under exclusion of air, the product may be stored at room temperature for several months. Pay attention to official safety regulations (see also: “Transport regulations”).

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.

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Packaging

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

OTHER INFORMATION

Further Related Documents	Safety Data Sheet

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