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Material Safety Data Sheet

SECTION 1:CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: LiODFB Company: Suzhou YACOO Science Co., Ltd. Address: No.128,FangZhou Road,Suzhou Industral Park,China Tel: 0512-87182055 Fax: 0512-87182056

SECTION 2: Hazards identification

2.1Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Skin irritation (Category 2), H315
Eye irritation (Category 2), H319
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2Label elements Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal word Warning
Hazard statement(s)
H315Causes skin irritation.
H319Causes serious eye irritation.
H335May cause respiratory irritation.
Precautionary statement(s)
P261Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264Wash skin thoroughly after handling.
P271Use only outdoors or in a well-ventilated area.
P280Wear protective gloves/ eye protection/ face protection.
P302 + P352IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements





none

Reduced Labeling (<= 125 ml) Pictogram

Signal wordWarning Hazard statement(s)none

Precautionary statement(s) Supplemental Hazard Statements 2.3Other hazards

none none

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1Substances Synonyms: Lithium oxalatodigluoroborate Lithium difluoro(ethanedioato)borate LIODFB LIF2OB LIFOB

Formula: C2BF2LiO4 Molecular weight: 143,77 g/mol CAS-No.: 409071-16-5

Component	Classification	Concentration
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CAS-No.	409071-16-5	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335	<= 100 %
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For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1Description of first-aid measures General advice
Show this material safety data sheet to the doctor in attendance.
If inhaled
After inhalation: fresh air.
In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.





If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician. 4.2Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1Extinguishing media Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2Special hazards arising from the substance or mixture

Carbon oxides Hydrogen fluoride Borane/boron oxides Lithium oxides

Not combustible.

Ambient fire may liberate hazardous vapours.

5.3Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2Environmental precautions

Do not let product enter drains.

6.3Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts. 6.4Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1Precautions for safe handling
For precautions see section 2.2.
7.2Conditions for safe storage, including any incompatibilities Storage conditions
Tightly closed. Dry.
Hygroscopic. Handle under inert gas. Protect from moisture.
7.3Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated





SECTION 8: Exposure controls/personal protection

8.1Control parameters Ingredients with workplace control parameters 8.2Exposure controls Personal protective equipment Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L **Body Protection** protective clothing Respiratory protection required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P2 The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1Information on basic physical and chemical properties a)Appearance Form: solid b)Odor No data available c)Odor Threshold No data available d)pH No data available e)Meltingpoint/freezing point Melting point/range: 265 - 271 ° C f)Initial boiling point and boiling range No data available g)Flash point Not applicable h)Evaporation rate No data available i)Flammability (solid, gas) No data available i)Upper/lower flammability or explosive limits No data available





k)Vapor pressure No data available
l)Vapor density No data available
m)Relative density No data available
n)Water solubility No data available
o)Partition coefficient: n-octanol/water No data available
p)Autoignition temperature No data available
q)Decomposition temperature No data available
r)Viscosity
Viscosity, kinematic: No data available
viscosity, dynamic: No data available
s)Explosive properties No data available
t)Oxidizing properties No data available
9.20ther safety information
No data available

SECTION 10: Stability and reactivity

10.1Reactivity
No data available
10.2Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .
10.3Possibility of hazardous reactions
No data available
10.4Conditions to avoid
no information available
10.5Incompatible materials
Strong oxidizing agents
10.6Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1Information on toxicological effects Acute toxicity No data available

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

Carcinogenicity No data available





Reproductive toxicity No data available

Specific target organ toxicity - single exposure Inhalation - May cause respiratory irritation. Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available

11.2Additional Information Not available

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

SECTION 12: Ecological information

12.1Toxicity
No data available
12.2Persistence and degradability
No data available
12.3Bioaccumulative potential
No data available
12.4Mobility in soil
No data available
12.5Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods Product See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

14.1UN number
ADR/RID: -IMDG: -IATA: 14.2UN proper shipping name ADR/RID: Not dangerous goods IMDG:Not dangerous goods IATA: Not dangerous goods
14.3Transport hazard class(es)
ADR/RID: -IMDG: -IATA: -





14.4Packaging group ADR/RID: -IMDG: -IATA: -14.5Environmental hazards ADR/RID: noIMDG Marine pollutant: noIATA: no 14.6Special precautions for user

Further information Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

15.1Safety, health and environmental regulations/legislation specific for the substance or mixture This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. National legislation

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

: Not applicable

Other regulations Take note of Dir 94/33/EC on the protection of young people at work. 15.2Chemical Safety Assessment For this product a chemical safety assessment was not carried out

SECTION 16:OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

