# ooo philip harris



1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING					
1.1 Product identifiers					
Product name:	LITHIUM CHLORIDE				
CAS-No.:	7447-41-8				
Product Number:	A68869				
1.2 Relevant identified uses of the substance or mixture and uses advised against					
Identified uses: Laboratory chemicals, Manufacture of substances					
1.3 Details of the supplier of the safety data sheet					
Company : Philip Harris	Philip Harris Ltd., 2 Gregory Street, Hyde, Cheshire, SK14 4HR,				
UNITED KINGDOM					
Telephone: +44 (0)845	1200 506 Fax: +44 (0)161 367 2140				
Email: enq	enquiries@philipharris.co.uk				
1.4 Emergency telephone number					
Emergency Phone #:	+44 (0)845 1200 506				

#### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

According to Regulation (EC) No1272/2008; Acute toxicity, Oral (Category 4), Skin irritation (Category 2), Eye irritation (Category 2), Specific target organ toxicity - single exposure (Category 3) According to European Directive 67/548/EEC as amended: Harmful if swallowed. Irritating to eyes, respiratory system and skin.

2.2 Label elements

Pictogram

Signal word



Warning

**Hazard statement(s):** H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

**Precautionary statement(s):** P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



Hazard symbol(s):

R-phrase(s): R22 Harmful if swallowed. R36/37/38 Irritating to eyes, respiratory system and skin.

**S-phrase(s):** S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

2.3 Other hazards – no data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS				
3.1 Substances				
Lithium chloride				
Formula:	LiCl			
Molecular Weight:	42.39g/mol			
CAS-No.:	7447-41-8			
EC-No.:	231-212-3			
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## 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.

In case of skin contact: Wash off with soap and plenty of water.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed: no data available

4.3 Indication of immediate medical attention and special treatment needed: no data available

# 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture: no data available

**5.3** *Precautions for fire-fighters:* Wear self contained breathing apparatus for fire fighting if necessary.

5.4 *Further information:* The product itself does not burn.

#### 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. Evacuate personnel to safe areas. Avoid breathing dust.

**6.2** *Environmental precautions:* Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**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.

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#### 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.

**7.2** Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Store in cool place. Hygroscopic

**7.3 Specific end uses:** no data available.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

**Appropriate engineering controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

**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).

**Skin 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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection:** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., 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).

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9. PHYSICAL AND CHEMICAL PROPERTIES								
9.1 Information on basic physical and chemical properties								
a) Appearance: Form:	Crystalline	Colour: White						
b) Odour:	no data availabl	e						
c) Odour Threshold:	no data available							
d) pH:	6							
e) Melting/freezing point:	605 °C	Melting point/range: no data available						
f) Initial boiling point and boiling range: 1,360 °C								
g) Flash point:	no data availabl	e						
h) Evaporation rate:	no data available							
i) Flammability (solid, gas): no data available								
j) Upper/lower flammability or ex	plosive limits:	no data available						
k) Vapour pressure:	no data available							
I) Vapour density:	no data available							
m) Relative density:	2.070 g/cm <sup>3</sup>							
n) Water solubility:	no data availabl	e						
o) Partition coefficient: n-octanc	l/water: log Pow:	-2.7						
p) Autoignition temperature: no data available								
q) Decomposition temperature:	no data availabl	e						
r) Viscosity:	no data availabl	e						
s) Explosive properties:	no data availabl	e						
t) Oxidizing properties:	no data availabl	e						
9.2 Other safety information: no data available								

# **10. STABILITY AND REACTIVITY**

10.1 *Reactivity:* no data available

10.2 Chemical stability: Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions: no data available

10.4 Conditions to avoid: Exposure to moisture.

10.5 Incompatible materials: Strong acids, Strong oxidizing agents, Bromine trifluoride

**10.6** *Hazardous decomposition products:* Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Lithium oxides

# 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: LD50 Oral - rat - 526 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

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Carcinogenicity: 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: Inhalation - May cause respiratory irritation.
Specific target organ toxicity - repeated exposure: no data available
Aspiration hazard: no data available

#### Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.			
Ingestion	Harmful if swallowed.			
Skin	May be harmful if absorbed through skin. Causes skin irritation.			
Eyes	Causes serious eye irritation.			

Signs and Symptoms of Exposure: no data available

Additional Information: RTECS: OJ5950000

# **12. ECOLOGICAL INFORMATION**

12.1 Toxicity: Toxicity to fish LC50 - Ptychocheilus lucius - 17 mg/l - 96 h

Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 1.2 mg/l - 64 h

12.2 Persistence and degradability: no data available

12.3 Bioaccumulative 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: Harmful to aquatic life.

# **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.

Contaminated packaging: Dispose of as unused product.

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14. TRANSPORT INFORMATION								
14.1 UN-Number								
ADR/RID:	-	IMDG:	-	IATA:	-			
14.2 UN proper shipping name								
ADR/RID:		Not dangerous goods						
IMDG:		Not dangerous goods						
IATA:		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:	no	IMDG Marine pollutant: no		IATA: no				
14.6 Special precautions for users								
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

Acute Tox. Acute toxicity

Eye Irrit. Eye irritation

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Skin Irrit. Skin irritation

Xn Harmful

R22 Harmful if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

A68869