

## Safety data sheet

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BASF Safety data sheet  
Date / Revised: 03.02.2025  
Product: **Luwx® AL 3 Powder**

Version: 5.1

(30043702/SDS\_GEN\_SG/EN)

Date of print: 21.10.2025

### 1. Substance/preparation and manufacturer/supplier identification

**Product name:**  
**Luwx® AL 3 Powder**

Use: Raw material for the chemical-technical industry

Recommended use: Chemical

Manufacturer/supplier:  
BASF South East Asia Pte Ltd.  
128 Beach Road #18-01  
Guoco Midtown, 189773, Singapore  
Telephone: +65 8322 4420  
Telefax number: +65 6 334-0330  
E-mail address: benny.zou@basf.com

Emergency information:  
Singapore Emergency Toll-Free Number:  
Telephone: 1800-723-1361  
International emergency number:  
Telephone: +49 180 2273-112

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### 2. Hazard identification

Classification of the substance and mixture:  
No need for classification according to GHS criteria for this product.

Label elements and precautionary statement:

The product does not require a hazard warning label in accordance with GHS criteria.

Other hazards which do not result in classification:  
The product is under certain conditions capable of dust explosion.

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The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.  
May form explosible dust-air mixture if dispersed

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### 3. Composition/information on ingredients

#### Chemical nature

Substance nature: Substance

polyethylene

CAS Number: 9002-88-4

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### 4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink 200-300 ml of water.

Note to physician:

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

(Further) symptoms and / or effects are not known so far

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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### 5. Fire-Fighting Measures

Suitable extinguishing media:

dry powder, foam

Unsuitable extinguishing media for safety reasons:

carbon dioxide

Additional information:

Avoid whirling up the material/product because of the danger of dust explosion.

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Specific hazards:

harmful vapours

Generation of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

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## 6. Accidental Release Measures

Personal precautions:

Avoid dust formation. Use personal protective clothing.

Environmental precautions:

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Contain with dust binding material and dispose of.

Avoid raising dust.

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## 7. Handling and Storage

Handling

Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Protection against fire and explosion:

Avoid dust formation. Take precautionary measures against static discharges.

Storage

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

Protect from temperatures below: -20 °C

Protect from temperatures above: 50 °C

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## 8. Exposure controls and personal protection

Components with occupational exposure limits

No substance specific occupational exposure limits known.

The nuisance dust limit value is to be kept.

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Particles, not otherwise specified, respirable

TWA value 3 mg/m<sup>3</sup> (ACGIHTLV), Respirable particles

TWA value 10 mg/m<sup>3</sup> (OEL (SG)), Particulate

Particles, not otherwise specified, inhalable

TWA value 10 mg/m<sup>3</sup> (ACGIHTLV), Inhalable particles

TWA value 10 mg/m<sup>3</sup> (OEL (SG)), Particulate

### Engineering Controls

Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

Ensure that dust does not build up in the ventilation system.

### Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Breathing protection if dusts are formed. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Chemical resistant protective gloves

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields.

Body protection:

No body protection required if used for intended purpose and satisfying generally accepted industrial hygiene rules.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

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## 9. Physical and Chemical Properties

Form:	powder
Colour:	white
Odour:	product specific

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Odour threshold:	No data available.	
pH value:	substance/mixture is non-soluble (in water)	
Melting temperature:	102 - 108 °C	
solidification temperature:	92 - 100 °C	
Boiling point:	not determined	
Flash point:	> 100 °C	(DIN 51758)
Evaporation rate:	No data available.	
Flammability (solid/gas):	Product is combustible.	(derived from flash point)
Lower explosion limit:	For solids not relevant for classification and labelling.	
Upper explosion limit:	For solids not relevant for classification and labelling.	
Ignition temperature:	> 200 °C	(DIN 51794)
Thermal decomposition:	No decomposition if used as directed.	
Self ignition:	not self-igniting	
Self heating ability:	No data available.	
SADT:	No data available.	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Vapour pressure:	Study scientifically not justified.	
Density:	0.91 - 0.925 g/cm <sup>3</sup> (23 °C)	
Relative density:	No data available.	
Bulk density:	400 - 500 kg/m <sup>3</sup>	
Relative vapour density (air):	The product is a non-volatile solid.	
Solubility in water:	insoluble	
Solubility (qualitative) solvent(s):	non-polar solvents soluble	
Partitioning coefficient n-octanol/water (log Pow):	not applicable	
Viscosity, kinematic:	160 - 240 mm <sup>2</sup> /s (120 °C)	(DIN 51562)

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#### Particle characteristics

Particle size distribution: No data available. -

Specific Surface Area:

No data available.

Particle Shape:

No data available.

Dustiness:

No data available.

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## 10. Stability and Reactivity

Conditions to avoid:

Avoid dust formation. Avoid deposition of dust. Avoid all sources of ignition: heat, sparks, open flame. Avoid electro-static charge.

Thermal decomposition:

No decomposition if used as directed.

Substances to avoid:

strong acids, strong bases, strong oxidizing agents

Corrosion to metals: No corrosive effect on metal.

Hazardous reactions:

No hazardous reactions when stored and handled according to instructions.

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

Chemical stability:

The product is stable if stored and handled as prescribed/indicated.

Reactivity:

No hazardous reactions if stored and handled as prescribed/indicated.

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## 11. Toxicological Information

### **Routes of exposure**

#### **Acute oral toxicity**

Experimental/calculated data:

ATE (oral): > 2,000 mg/kg

#### **Acute inhalation toxicity**

(by inhalation): No data available.

#### **Acute dermal toxicity**

(dermal): No data available.

#### **Assessment of acute toxicity**

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

### **Symptoms**

Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

(Further) symptoms and / or effects are not known so far

### **Irritation**

Assessment of irritating effects:

Not irritating to eyes and skin.

Experimental/calculated data:

Skin corrosion/irritation: No data available.

Serious eye damage/irritation: No data available.

### **Respiratory/Skin sensitization**

Assessment of sensitization:

Based on the ingredients, there is no suspicion of a skin-sensitizing potential.

### **Germ cell mutagenicity**

Assessment of mutagenicity:

Based on the ingredients, there is no suspicion of a mutagenic effect.

### **Carcinogenicity**

Assessment of carcinogenicity:

Based on the ingredients there is no suspicion of a carcinogenic effect in humans.

Experimental/calculated data:

No data available.

### **Reproductive toxicity**

Assessment of reproduction toxicity:

Based on the ingredients, there is no suspicion of a toxic effect on reproduction.

Experimental/calculated data:

No data available.

### **Specific target organ toxicity (single exposure)**

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

### **Repeated dose toxicity and Specific target organ toxicity (repeated exposure)**

Assessment of repeated dose toxicity:

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Experimental/calculated data:  
No data available.

### **Aspiration hazard**

No aspiration hazard expected.

### **Other relevant toxicity information**

The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

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## **12. Ecological Information**

### **Ecotoxicity**

Assessment of aquatic toxicity:  
There is a high probability that the product is not acutely harmful to aquatic organisms.  
At the present state of knowledge, no negative ecological effects are expected.

Toxicity to fish:  
No data available.

Aquatic invertebrates:  
No data available.

Aquatic plants:  
No data available.

Microorganisms/Effect on activated sludge:  
No data available.

Chronic toxicity to fish:  
No data available.

Chronic toxicity to aquatic invertebrates:  
No data available.

### **Mobility**

Assessment transport between environmental compartments:  
The substance will not evaporate into the atmosphere from the water surface.  
Adsorption to solid soil phase is possible.

### **Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):  
Not readily biodegradable (by OECD criteria).  
The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.



## Bioaccumulation potential

Assessment bioaccumulation potential:  
Accumulation in organisms is not to be expected.

## Additional information

Other ecotoxicological advice:  
Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from products of a similar structure and composition.

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## 13. Disposal Considerations

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:  
Uncontaminated packaging can be re-used.  
Packs that cannot be cleaned should be disposed of in the same manner as the contents.

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## 14. Transport Information

### Domestic transport:

	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

### Sea transport

#### IMDG

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
	Marine pollutant: no
Special precautions for user	None known

### Air transport

#### IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
Proper shipping name:	Not applicable

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Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

### Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

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## 15. Regulatory Information

### Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

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## 16. Other Information

Information on intended use: This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use. This includes the mentioned and recommended usage. Any other intended applications should be discussed with the manufacturer. In particular this concerns the application for products that are the object of special standards and regulations.

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Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.