



Product name: ALUMINUM PIGMENT

Issue date: 18/12/2018

SDS

Safety Data Sheet

SDS No. : 1886211218201



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Safety data sheet

according to Regulation (EU) No 2015/830

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SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : ALUMINUM PIGMENT

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the : Printing, painting.
Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : Shanghai Luying New Material Technology Co., Ltd.

Address : No. 80, Lane 243, Jiugan Road, Sijing Town, Songjiang District,
Shanghai, China

Telephone : +86 21 57628412

Telefax : +86 21 57628564

1.4 Emergency telephone number

Emergency telephone : +86 21 57628412
number

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

Flam. Liq. 3	H226
STOT SE 3	H336

2.1.2 Additional information:

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms



Signal word:

Warning

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Hazard statements:

H226 Flammable liquid and vapour
H336 May cause drowsiness or dizziness

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P280 Wear protective gloves / protective clothing / eye protection / face
P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P370 + P378 In case of fire: Use dry chemical, CO₂, water spray or alcohol-resistant foam as extinguishing agents. to extinguish.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for
P312 Call a POISON CENTER/doctor if you feel unwell.
P403 + P235 Store in a well-ventilated place. Keep cool.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations

Supplemental Hazard information (EU): Not applicable.

2.3 Other hazards

no information available.

SECTION 3. Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Registration number	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration (% w/w)
1-methoxy-2-propanol (CAS No.: 107-98-2) (EC No.: 203-539-1)		
	Flam. Liq. 3, H226 STOT SE 3, H336	90%

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Aluminium (CAS No.: 7429-90-5)(EC No.: 231-072-3)		
		10%

SECTION 4. First aid measures

4.1 Description of first aid measures

- General advice : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- If inhaled : Remove the person from exposure. Begin rescue breathing (using universal precautions) if breathing has stopped and CPR if heart action has stopped. Transfer promptly to a medical facility.
- On skin contact : Quickly remove contaminated clothing. Immediately wash contaminated skin with large amounts of soap and water.
- On contact with eyes : Immediately flush with large amounts of water for at least 15 minutes, lifting upper and lower lids. Remove contact lenses, if worn, while rinsing.
- On ingestion : Rinse mouth and then drink plenty of water.If you feel uncomfortable, get medical attention and treatment.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Acute effects on health
Contact can irritate the skin and eyes.The inhalation of 1-methoxy-2-propanol can irritate the nose, throat and lung, causing coughing, wheezing or shortness of breath. Exposure can cause headache, dizziness.
Chronic effects on health
The 1-methoxy-2-propanol can irritate the lung. Repeated exposure may cause bronchitis with cough, phlegm or shortness of breath, may affect the liver and kidneys.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treatment of exposure should be directed at the the clinical condition of the patient.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Use dry chemical, CO₂, water spray or alcohol-resistant foam as extinguishing agents.

5.2 Special hazards arising from the substance or mixture

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Specific hazards during firefighting : POISONOUS GASES ARE PRODUCED IN FIRE. CONTAINERS MAY EXPLODE IN FIRE. Vapor is heavier than air and may travel a distance to cause a fire or explosion far from the source and flashback. May form an ignitable vapor/air mixture in closed tanks or containers.

5.3 Advice for firefighters

Special protective equipment : Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

Further information : No information available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel and secure and control entrance to the area. Remove all sources of ignition. Ensure adequate ventilation.

6.2 Environmental precautions

Environmental precautions : Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Absorb liquids in dry sand, earth, or a noncombustible material and place into sealed containers for disposal. Ventilate and wash area after clean-up is complete.

6.4 Reference to other sections

References to other sections, if applicable, have been provided in the previous sub-sections.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid breathing vapors. Wear safety glasses with side shields. Use local exhaust ventilation if there is risk of inhalation vapors, mists or aerosols.

Advice on protection against fire and explosion : Metal containers should be grounded and bonded. Use explosion-proof electrical equipment and fittings wherever product is used, handled, manufactured, or stored. Use only non-sparking tools and equipment, especially when opening and closing containers.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in tightly closed containers in a cool, well-ventilated area away from SUNLIGHT.

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical name	Occupational Exposure Limits		Regulation
1-methoxy-2-propanol	TWA	375mg/m3	European Union
1-methoxy-2-propanol	STEL	568mg/m3	European Union

8.2 Exposure controls

Eye protection : Wear indirect-vent, impact and splash resistant goggles when working with liquids.

Hand protection : The recommended glove materials are Viton™.

Body and skin protection : Where there is potential for skin contact, have available and wear as appropriate, impervious gloves, apron, pants, jacket, hood and boots.

General safety and hygiene measures : Wash hands before breaks and after handling the product.

Respiratory protection : Respirators should only be used if the employer has implemented a written program that takes into account workplace conditions. If there is a possibility of exposure above 100 ppm, use a respirator with air supply and full mask.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: : liquid

Odour : mild, ethereal odor

Odour threshold : no data available

pH : no data available

Melting point : no data available

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Boiling point : no data available
Flash point : 32°C (closed cup)
Evaporation rate : no data available
Flammability (solid, gas) : not applicable

Upper/lower flammability : no data available
or explosive limits

Vapour pressure : no data available

Vapour density : no data available

Relative density : no data available

Water solubility : insoluble

Partition coefficient: n- : no data available
octanol/water

Auto-ignition : no data available
temperature

Decomposition : no data available
temperature

Viscosity, dynamic : no data available

Explosive properties : not explosive

Oxidising properties : not applicable

9.2 Other information :
no data available

SECTION 10: Stability and Reactivity

10.1 Reactivity : No data available

10.2 Chemical stability : This product is chemically stable under standard ambient conditions.

10.3 Possibility of hazardous reactions : This material is considered stable. However, avoid contact with ignition sources (e.g. sparks, open flame, heated surfaces).

10.4 Conditions to avoid : Avoid all sources of ignition: heat, sparks, open flame.

10.5 Incompatible materials : Avoid contact with: Strong acids.Strong bases.Strong oxidizers.

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10.6 Hazardous decomposition products : Carbon monoxide.Carbon dioxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute Toxicity: oral

Aluminium

LD50/rat:> 15 900 mg/kg bw

1-methoxy-2-propanol

LD50/rat:4 277 mg/kg bw

Acute Toxicity: inhalation

Aluminium

LC0/4 h/rat:0.888 mg/L air (analytical)

1-methoxy-2-propanol

LC0/6 h/rat:> 7 000 ppm

Acute Toxicity: dermal

1-methoxy-2-propanol

LD50/rat:> 2 000 mg/kg bw

Skin irritation/corrosion

Aluminium

rabbit

not irritating

1-methoxy-2-propanol

rabbit

not irritating

Serious eye damage/irritation

Aluminium

rabbit

not irritating

1-methoxy-2-propanol

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rabbit
not irritating

Respiratory or skin sensitisation

Aluminium
guinea pig
not sensitising

1-methoxy-2-propanol
guinea pig
not sensitising

Germ cell mutagenicity

Aluminium
negative

1-methoxy-2-propanol
negative

Carcinogenicity

Evidence analysis showed that the substance was not a carcinogen.

Reproductive toxicity

Animal tests showed no developmental toxicity.

STOT-single exposure

May cause drowsiness or dizziness

STOT-repeated exposure

No information available

Aspiration hazard

No information available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic Toxicity

Short-term toxicity to fish

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1-methoxy-2-propanol
LC100/96 h/Leuciscus idus: 10 000 mg/L

Short-term toxicity to aquatic invertebrates

1-methoxy-2-propanol
LC0/48 h/Daphnia magna: mg/L

Toxicity to microorganisms

1-methoxy-2-propanol
IC50/3 h/activated sludge: > 1 000 mg/L

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

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Observe national and local legal requirements.

Contaminated packaging : Uncontaminated packaging can be re-used.

SECTION 14: Transport Information

Land transport

ADR

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14.1. UN number : 1993
14.2. UN proper shipping : FLAMMABLE LIQUID, N.O.S.(contain 1-methoxy-2-propanol)
name:
14.3. Transport hazard : 3
class(es):
14.4. Packing group : III
14.5. Environmental : no
hazards
14.6. Special : none
precautions for user

Sea transport

IMDG

14.1. UN number : 1993
14.2. UN proper shipping : FLAMMABLE LIQUID, N.O.S.(contain 1-methoxy-2-propanol)
name:
14.3. Transport hazard : 3
class(es):
14.4. Packing group : III
14.5. Environmental : no
hazards
14.6. Special : none
precautions for user

Air transport

IATA/ICAO

14.1. UN number: : 1993
14.2.UN proper shipping : FLAMMABLE LIQUID, N.O.S.(contain 1-methoxy-2-propanol)
name:
14.3. Transport hazard : 3
class(es):
14.4. Packing group: : III
14.5. Environmental : no
hazards:
14.6. Special : none
precautions for user

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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Other regulations : Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment/Chemical Safety Report may not be required because: substance(s) are exempted from being registered under REACH, are not yet registered under REACH, are registered under another regulatory process (biocide uses, plant protection products), the volume is below the 10 tons/year threshold specified under Art. 14(1) of REACH, the concentration of substance(s) in a mixture is/are below the limits specified under Art. 14(2) of REACH.

SECTION 16: Other information

Full text of H-Statements referred to under section 3.

H226	Flammable liquid and vapour
H336	May cause drowsiness or dizziness

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute toxicity estimate
CAS-No.	Chemical Abstracts Service number
CLP	Classification, Labelling and Packaging
EbC50	Concentration at which 50% reduction of biomass is observed
EC50	Median effective concentration
EN	European Norm
EPA	Environmental Protection Agency
ErC50	Concentration at which a 50% inhibition of growth rate is observed
EyC50	Concentration at which 50 % inhibition of yield is observed
IATA_C	International Air Transport Association (Cargo)
IBC	International Bulk Chemical Code
ICAO	International Civil Aviation Organization
ISO	International Standard Organization
IMDG	International Maritime Dangerous Goods
LC50	Median Lethal Concentration
LD50	Median Lethal Dose
LOEC	Lowest Observed Effect Concentration
LOEL	Lowest observed effect level
MARPOL	International Convention for the Prevention of Marine Pollution from
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No observed adverse effect level
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
OECD	Organisation for Economic Co-operation and Development
OPPTS	Office of Prevention, Pesticides and Toxic Substances
PBT	Persistent, Bioaccumulative and Toxic
STEL	Short term exposure limit

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TWA
vPvB

Time Weighted Average (TWA)
very Persistent and very Bioaccumulative

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