

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Revision:2020-01-01

According to EEC91/155

Version 3.3.1

SECTION 1:

Identification of the substance/mixture and of the company/undertaking

·**Product identifier:**Aluminum silver paste

·**Trade name:**S11251A

·**Relevant identified uses of the substance or mixture and uses advised against**
This information is not available.

·**Application of the substance/the preparation:**Pigment

·**Manufacturer Name:**Hong Kong Sunflower Group

·**Manufacturer factory address:**Xinhua Industrial Park,Huadu
District,Guangzhou,China

·**Zip Code:**510812

·**Telephone:**+86 20 8689 2123

·**Telefax:**+86 20 8689 2123

·**E-mail address:**info@sunflower-group.com

SECTION 2: Hazards identification

·**GHS Classification**

·**Classification according to the sixth revision of GHS**

Hazard category:Flammable solids,class 2.

The label element

·**Pictogram:**



·**Warning words:**Warning

·**Hazard description:**Flammable solid

Preventive measures:

Keep away from heat/spark/flame/hot surface.- no smoking.

Keep the container closed.

Avoid releasing into the environment.

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Incident response:

In case of fire, foam and dry sand are used especially for powder fire.
Collect the leakage and prohibit the entry into the environment.

Safe storage:

Store in an airtight container in a well-ventilated place.

SECTION 3:Composition/information on ingredients**·Mixture**

·Description:Mixture of substances listed below with nonhazardous additions.

Material Name	CAS No.	Proportion
Aluminium	7429-90-5	18%~22%
2-Butoxyethanol	111-76-2	78%~82%

Dangerous chemicals ingredients:Water proof (or: ethylene glycol butyl ether; ethylene glycol monobutyl ether, ethylene glycol monobutyl ether; Ding Jirong fiber agent; propylene EB; butoxy ethanol; 2 - are butoxy ethanol)

CAS no. : 111-76-2

Name: ethylene glycol monobutyl Mr;2 - butoxyethanol;Butyl cellosolve;Butyl Glycol

Chemical categories:Ether

Molecular formula C₆H₁₄O₂

The relative molecular weight: 118.17

Appearance and properties: Colorless liquid, has a moderate ether flavour.

Main use: Used as paint, printing ink solvents, metal cleaning agent composition and dye dispersants of raw materials.

SECTION 4:First aid measures**Description of first aid measures**

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General advice	Move the victim to fresh air. Do not leave the victim unattended. Move out of dangerous area. Show this safety data sheet to the doctor in attendance.
If inhaled	If unconscious,place in recovery position and seek medical advice. If symptoms persist,call a physician.
In case of skin contact	Wash off immediately with soap and plenty of water. If skin irritation persists,call a physician. If on skin,rinse well with water. If on clothes,remove clothes.
In case of eye contact	Immediately flush eye(s) with plenty of water. Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists,consult a specialist.
If swallowed	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist,call a physician.

Most important symptoms and effects,both acute and delayed.

This information is not available.

Indication of any immediate medical attention and special treatment needed.

This information is not available.

SECTION 5:Firefighting measures

•Extinguishing media:

Special powder for metal fires.Do not use water.

•Personal precautions,protective equipment and emergency procedures

Wear protective equipment.Keep unprotected persons away.

Remove persons from danger area.

Avoid formation of dust.

•For safety reasons unsuitable extinguishing agents:

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Water

Carbon dioxide

•**Special danger:**No further relevant information available.

SECTION 6:Accidental release measures

Personal precautions,protective equipment and emergency procedures

Personal precautions:Evacuate personnel to safe areas.

Use personal protective equipment.

Remove all sources of ignition.

Use personal protective equipment.

Avoid dust formation.

Environmental precautions

Environmental precautions:Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains
inform respective authorities.

Methods and materials for containment and cleaning up

Methods for cleaning up:Use mechanical handling equipment.

Soak up with inert absorbent material (e.g.sand,silica
gel,acid binder,universal binder,sawdust).

Do not flush with water.

Keep in suitable,closed containers for disposal.

SECTION 7:Handling and storage

Precautions for safe handling

Advice on safe handling:

Keep away from heat and sources of ignition.Avoid dust formation.Ensure adequate
ventilation.

Avoid formation of respirable particles.Do not breathe vapours/dust.Avoid contact
with skin and eyes.For personal protection see section 8.Smoking,eating and drinking

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should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion:

Keep away from open flames, hot surfaces and sources of ignition. Earthing of containers and apparatuses is essential.

Avoid dust formation.

Hygiene measures:

When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep container closed when not in use. Keep away from sources of ignition - No smoking.

Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations/working materials must comply with the technological safety standards.

Further information on storage conditions:

Protect from humidity and water. Do not allow to dry.

Advice on common storage:

Do not store together with oxidizing and self-igniting products.

Never allow product to get in contact with water during storage. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Other data: No decomposition if stored and applied as directed.

SECTION 8: Exposure controls/personal protection

·Additional information about design of technical facilities:

No further data.

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·Control parameters :

No further data.

·Additional information:

No further data.

Personal protective equipment

Eye protection:

Wear face-shield and protective suit for abnormal processing problems.

Hand protection Material:Solvent-resistant gloves

Remarks:

Take note of the information given by the producer concerning permeability and break through times,and of special workplace conditions (mechanical strain,duration of contact).The exact break through time can be obtained from the protective glove producer and this has to be observed.Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.Also take into consideration the specific local conditions under which the product is used,such as the danger of cuts,abrasion,and the contact time.Recommended preventive skin protection.

Skin should be washed after contact.

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection:

Long sleeved clothing

Safety shoes

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection:

Use suitable breathing protection if workplace concentration requires.

Environmental exposure controls

General advice:

Prevent further leakage or spillage if safe to do so.

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If the product contaminates rivers and lakes or drains inform respective authorities.

Water:

The product should not be allowed to enter drains,water courses or the soil.

SECTION 9:Physical and chemical properties

General Information

Form	Pasty
Colour	Silver-coloured
Odour	Characteristic
Change in condition	
Melting point/Melting range	Undetermined
Boiling point/Boiling range	171°C
Flash point	61.1°C
Ignition temperature	472°C
Self-igniting	Product is not selfigniting
Danger of explosion	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits	Lower: 1.7 Vol % Upper: 15.6 Vol %
Vapour pressure at 20°C	0.101KPa
Density at 20°C	0.901g/cm ³
Solubility in / Miscibility with water	Insoluble

SECTION 10:Stability and reactivity

·Chemical stability:

No decomposition if used according to specifications.

No decomposition if used and stored according to specifications.

·Incompatibilities:acids,alkali,anhydride,halogens,oxidizing agents,corrosives and chemicals

·Polymerization:nonoccurrence

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·Hazardous decomposition products:No dangerous decomposition products known

SECTION 11:Toxicological information

·Acute Toxicity

·Primary irritant effect:

Irritating to eyes,respiratory system and skin.

·Sensitization:No sensitizing effects known.

·Additional toxicological information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA,IARC,NTP,OSHA or ACGIH.

SECTION 12:Ecological information

Toxicity

Components:

Solvent naphtha (petroleum),light arom.

Ecotoxicology Assessment

Long-term (chronic) aquatic hazard:Toxic to aquatic life with long lasting effects.

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

No data available



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Other adverse effects

Product:

Additional ecological information:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.,Harmful to aquatic life with long lasting effects.

SECTION 13:Disposal considerations

Waste treatment methods

Product: Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
In accordance with local and national regulations.

Contaminated packaging: Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
In accordance with local and national regulations.

SECTION 14:Transport information

·UN-No.: 1325

·ADR,IMDG,IATA

·UN proper shipping name

·ADR 1325 FLAMMABLE SOLID,ORGANIC,N.O.S.
(Aluminium pigment paste)

·IMDG.IATA FLAMMABLE SOLID,ORGANIC,N.O.S.
(Aluminium pigment paste)

·Transport hazard class

·ADR

·Class: 4.1 Flammable solids,self-reactive
substances and solid desensitized explosive

·Label: 4.1



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·Packing group:	
·ADR,IMDG,IATA:	II
·Enviromental hazards:	
·Marine pollutant:	No
·Danger code (kemler)	40
·EMS No.:	F-G,S-G

SECTION 15:Regulatory information

- Domestic regulation:
 - The product in the standard Name List of Hazardous Chemicals (GB 12268-2012) of the state,which number is No.1325,name and description:organic inflammable solid,unspecified.
 - The product in the standard Name List of Hazardous Chemicals (2015),which number is No.33645,name and description:Aluminum paste
 - The product in the Railway dangerous commodity name list(2015),which number is No.33645,name and description:Aluminum paste
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SECTION 16:Other information

·DISCLAIMER OF LIABILITY

The information in this MSDS was obtained from sources which we believe are reliable.However,the information is provided without any warranty,express or implied,regarding its correctness.The conditions or methods of handling,storage,use or disposal of the product are beyond our control and may be beyond our knowledge.For this and other reasons,we do not assume responsibility and expressly disclaim liability for loss,damage or expense arising out of or in any way connected with the handling,storage,use or disposal of the product.This MSDS was prepared and is to be used only for this product.If the product is used as a component in another product,this MSDS information may not be applicable.