



# SDS Safety Data Sheet

## LIQUID ALUMINIUM SPRAY

### 1. Chemicals and corporate identity

Product identification	FUKKOL LIQUID ALUMINIUM SPRAY
Product number	91395
Suppliers	KALEN INTERATIONAL LTD Hongkong Kowloon New Po Kong Fong Street No. 10 new treasure Center Building 1 room 6 words
Emergency telephone	+ 852-2420 2444
Fax	+ 852-2485 1418
Manufacturer	KALEN LUBRICANTS TECHNOLOGY(HUI ZHOU) LTD.

### 2. Risk overview

EU standard classification	F; R11   Xn; R65   Xi; R38   R67
GB 13690-92 Classification of common dangerous chemicals	Flammable liquid;
Physical / chemical hazard	The material releases steam to form combustible gases, The accumulation of steam will flicker or explode if it is ignited. Electrostatic accumulation of the substance may cause a discharge to fire.
Environmental hazard	High concentration, high toxicity to aquatic organisms.
Health hazard	Harmful: if swallowed by mistake, it will cause lung damage. Steam can cause drowsiness and dizziness. It may irritate eyes, nose, throat and lungs. Prolonged skin contact can cause dryness, dandruff removal, chapping and dermatitis.

# SDS

## Safety Data Sheet

It may cause central nervous system depression.

Flame burst hazard

Combustible goods.

Danger sign



### 3. Composition

Ingredients	CAS #	ProportionProportion
Butyl acetate	123-86-4	1-15%
xylene	1330-20-7	1-12.5%
Oil refined	64742-48-9	1-10%
Naphtha	64742-82-1	1-2.5%
Dimethyl ether	115-10-6	70-80%

### 4. First aid measures

#### Inhalation

Using appropriate respiratory protective device, the patient will be transferred immediately, if the patient stops breathing, artificial respiration should be carried out, and the rest is maintained and the medical care is carried out in time..

#### Skin contact

Wash the place with soap and water.  
Take off contaminated clothes. Contaminated clothes should be washed with soap and water and then wear.

#### Eye contact

To wash the eyelids, with the flow of water or saline. Seek medical assistance

#### Eating

If the victim is lighter, drink 2-4 cup of milk or water.  
If the victim has lost consciousness, seek medical attention immediately.



## SDS Safety Data Sheet

### 5. Fire control measures

<b>Fire Extinguisher</b>	Use foam, dry chemical reagent (dry powder), or carbon dioxide (CO <sub>2</sub> ) fire.
<b>Hazardous combustion products</b>	Carbon monoxide, carbon dioxide.  Not listed
<b>Flash point (degrees C)</b>	Firefighters to wear a gas mask, wearing a full body fire service, in the upper hand to fire. As far as possible the containers from fire to open. Water spray to keep fire cooling container, until the end of the fire. If the containers in the fireground have discoloration or generate sound from the safety relief devices, must be immediately evacuated.
<b>Fire extinguishing procedure</b>	Fire extinguishing agent: foam, dry powder, carbon dioxide, sand.

### 6. Accidental overflow handling measures

High temperature of the material, to avoid fire, Mars, or natural fire, if there is no danger, it is possible to stop and then overflow. With a mop or absorbent material will overflow into the proper container for further processing. Quickly evacuate the contaminated area personnel to the safe area, and to isolate, strictly limit access. Cut off the fire source. Recommended emergency personnel wear self positive pressure respirator, wear protective clothing for firefighters. As far as possible to cut off the source of leakage, prevent access to sewers, flood channel limited space.

<b>Small leakage</b>	Adsorption or absorption of sand or other non combustible materials. Can also be used a lot of water washing, washing water and diluted into the wastewater system.
<b>Large leakage</b>	Construct a barrierpit to contain; covered with foam, reduce the Vapor Hazard. Explosion proof pump transferred to tankexclusive collector, place the disposal of recycling or shipped to the waste disposal.

### 7. Operation disposal and storage

<b>Operating notes</b>	Closed operation, pay attention to ventilation. Operators must be trained in strict compliance with the operating rules. Stay away from fire, heat, smoking is prohibited in the workplace. Use explosion-proof ventilation system and equipment. To prevent vapor
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# SDS

## Safety Data Sheet

from leaking into the air in the workplace. Avoid contact with oxidizing agent. When transporting light light, to prevent damage to packaging and containers.

Mechanical equipment and tools that are prohibited from using the easy to produce sparks.

At the time of filling, we should pay attention to the velocity of flow (not more than 3m/s), and there is a grounding device to prevent the accumulation of static electricity.

Stored in a cool, ventilated warehouse. Away from fire and heat. The temperature in the warehouse is not more than 45. To prevent direct sunlight. Keep container seal. Should be separate from the oxidant. Storage room lighting, ventilation and other facilities should be used in explosion-proof type, switch located in the warehouse. Equipped with corresponding varieties and quantities of fire equipment. Bottled stacking is not too large, should stay away from the wall, from the top of column, and the necessary fire inspection walkway. Technical measures for fire and explosion prevention in the storage tank. Open tank to summer cooling measures.

### Storage precautions

## 8. Exposure control and personal protection

### Occupational exposure limit

China MAC (mg/m<sup>3</sup>)

The former Soviet union

MAC(mg/m<sup>3</sup>)

TLVTN

TLVWN

(Butyl acetate: 300) (xylene: 100)

(Butyl acetate: 200) (xylene: 100)

(Butyl acetate: OSHA 150ppm, 713mg/m<sup>3</sup>; ACGIH 20ppm, 95mg/m<sup>3</sup>)  
(xylene: OSHA 100ppm, 434mg/m<sup>3</sup>; ACGIH 100ppm, 434mg/m<sup>3</sup>)

(Butyl acetate: No standards set)

(xylene: ACGIH 150ppm, 651mk/m<sup>3</sup>)

### Chemical marking symbol



### Process control

Production process closed, full ventilation. Provide safe shower and eye washing equipment.

### Inhalation

### Respiratory system protection



## SDS Safety Data Sheet

Generally do not need special protection, but the working environment of the air concentration than the general situation, can be worn with a filter type gas mask (half mask).

### Personal protection

The body is protected against static electricity.  
Hand protective wear gloves.

### Its

Smoking is prohibited in the workplace.

## 9. Physical and chemical properties

Product status	Liquid state
Appearance and smell	Aluminum metallic liquid with a pungent smell
Specific gravity 25, g/cm <sup>3</sup>	0.8-0.9
Volatilization rate	Quickly
Steam density (atmosphere =1)	> atmosphere
Solubility	Insoluble in water, Miscible with organic solvents
Volatile organic compounds (%)	0
g/l: 0	lbs./gal:0
Steam pressure	3,5-4,2 bar (20° C)
Steam pressure	8,5-9,5 bar (50° C)

## 10. Stability and chemical reaction data

Stability	Stable at room temperature; Easily react with acids or strong oxidizing substances
Risk aggregation	Will not produce
Avoid measures	Strong oxidant, acid, amine, anhydride
Material attention	No



## SDS Safety Data Sheet

The risk of material  
after decomposition

No

### 11. Toxicity data

Acute toxicity:

Genuine leather LD50  
Inhalation LC50

Murine vein Township  
4 hours (rats inhaled)

40mg/kg  
3400ppm

When skin tests are performed on animals, it is found that long-term exposure can cause skin sensitivity, but they are mild or moderate.  
In contact with the product, such as the use of water wash should be no big deal, but also to try to avoid prolonged contact or inhalation of this product.

### 12. Ecological data

Ecological toxicity

No data display

Environmental degradation

No data display

### 13. Waste information

Waste method

The empty drum shall be recovered, regenerated or abandoned by the institution of a qualified or executing license, and be careful in any case to make sure that it is in conformity with the national laws and local regulations.

### 14. Transport information

Maritime name

Aerosol

Dangerous goods category

Class 2.1 flammable and explosive gases

United Nations Code

UN 1950

Package type

II

Label

2

Hazardous substances  
needed to be reported

Unwanted



# SDS

## Safety Data Sheet

Special preparation for  
transportation

Unwanted

### 15. Regulation information

EU standard  
classification

Combustible

The classification of the product is carried out according to the test data of the whole or part of the product.

EU label

Symbol: F, Xn

Risk characteristics

R11; Flammable.

R67; Steam can cause drowsiness and dizziness.

S43; In case of fire, use foam, dry chemical preparation (dry powder) or carbon dioxide

S9; Place the container in a well ventilated place.

S16; Stay away from fire, please do not smoke.

S33; Take ESD preventive measures.

Safety recommendations

S36/37; Wear suitable protective clothing and gloves.

S57; Use appropriate containers to avoid environmental pollution

S60; This material and its container must be treated with hazardous waste.

### 16. Other information

Reference:

Change description: No

Other information: The following laws and regulations and standards have made corresponding regulations on the safe use, storage, transportation, loading and unloading, classification and marking of chemicals.:

Law Of The People's Republic Of China On Safe Production. (The tenth meeting of the standing committee of the 12th National People's Congress was adopted in Aug., 31th, 2014)

The Occupational-Disease-Prevention Law Of The People's Republic Of China. (The 24th meeting of the standing committee of the ninth National People's Congress was adopted in Oct., 27th, 2001)

Environmental Protection Law Of The People's Republic Of China. (The 11th meeting of the standing committee of the seventh National People's Congress was adopted in Dec., 26th, 1989.)

Regulations On The Safety Management Of Hazardous Chemicals. (The 44th executive meeting of the state council adopted the amendment in Feb., 16th, 2011.)



## SDS Safety Data Sheet

《The safety production license ordinance.》 (The 34th executive meeting of the state council adopted in Jan., 7th, 2004.)

### Disclaimer.:

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Release date: May, 1st, 2020