



# DSL Chemicals (Shanghai) Co., Ltd.

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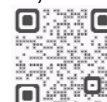
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## MATERIAL SAFETY DATA SHEET

Version 2.0

Revision Date: Jan. 05, 2016



### Section 1 - Product and Company Information

Product Name: 5-Chloro-2-Furoic Acid

Product Number: C020391

Company: DSL Chemicals (Shanghai) Co., Ltd

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Shanghai 200001, China

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### Section 2 - Composition, Information on Ingredients

Substance Name

CAS #

5-Chloro-2-Furoic Acid

618-30-4

Formula: C<sub>5</sub>H<sub>3</sub>ClO<sub>3</sub>

Molecular Weight: 146.53 g/mol

### Section 3 - Hazards Identification

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin corrosion/irritation(Category 1B) H314

No Resource File

GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H314

Causes severe skin burns and eye damage

Precautionary statement(s)

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P264

Wash hands thoroughly after handling

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P304+P340

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

P310	to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container to in accordance with local regulation
Associated risk phrases according to european directive 67/548/EEC	
R-phrases	
R34	Causes burns.
S-phrases	
S1	Keep locked up.
S23	Do not breathe gas/fumes/vapour/spray.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28	After contact with skin, wash immediately with plenty of water.
S61	Avoid release to the environment. Refer to special instructions/Safety data sheets.
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

#### Section 4 - First Aid Measures

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.

Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 3) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

#### Section 5 - Fire Fighting Measures

Extinguishing media

Suitable extinguishing media: alcohol-resistant foam, dry chemical or carbon dioxide

Unsuitable extinguishing media: no data

Special hazards arising from the substance or mixture

In combustion toxic fumes may form.

Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective clothing to prevent contact with skin and eyes.

## **Section 6 - Accidental Release Measures**

Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Do not attempt to take action without suitable protective clothing.

For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains or river.

Alert the neighbourhood to the presence of fumes or gas.

Methods and materials for containment and cleaning up

Mix with sand or vermiculite. Sweep up and shovel. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

Reference to other sections

For disposal see section 13.

## **Section 7 - Handling and Storage**

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Wash hands thoroughly after handling. Ensure there is sufficient ventilation of the area.

Normal measures for preventive fire protection. For precautions see section 3.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at 2-8 °C.

Specific end use(s)

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

## **Section 8 - Exposure Controls, Personal Protection**

Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

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

Face shield and safety glasses 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.

Body Protection

Complete suit protecting against chemicals, 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).

Control of environmental exposure

Do not let product enter drains.

## Section 9 - Physical and Chemical Properties

Appearance	
Form	Solid
Colour:	White
Odour	No data available
Odour Threshold	No data available
pH	No data available
Flash point	No data available
Evaporation rate	No data available
Vapour pressure	No data available
Vapor Density	No data available
Relative density	No data available
Solubility in water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No Data
Explosive properties	No data available
Oxidizing properties	No data available

## Section 10 - Stability and Reactivity

Reactivity	
No data available	
Chemical stability	
Stable under recommended storage conditions.	
Possibility of hazardous reactions	
No data available	
Conditions to avoid	
No data available	
Incompatible materials	
Strong oxidizing agents, Strong bases, Alcohols	
Hazardous decomposition products	
Carbon monoxide, carbon dioxide, hydrogen chloride.	

## Section 11 - Toxicological Information

Information on toxicological effects	
Acute Toxicity	No date available
Skin corrosion/irritation	Irritant for skin and mucous membranes
Serious eye Damage/irritation	Irritant effect
Respiratory or skin sensitisation	No date available
Germ Cell mutagenicity	No date available
Carcinogenicity	No date available
Reproductive toxicity	No date available
STOT-single exposure	No date available
STOT-repeated exposure	No date available
Aspiration hazard	No date available
Additional	
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

No data available

## Section 13 - Disposal Considerations

Waste treatment methods  
Disposal Operations  
Consult state, local or national regulations for proper disposal. Hand over to authorised disposal company as hazardous waste.  
Disposal of Packaging  
Disposal must be made according to official regulations.

#### **Section 14 - Transport Information**

DOT (US)  
UN number: 3261                      Class: 8                      Packing group: III  
Proper shipping name: 5-Chloro-2-Furoic Acid  
Environmental hazards: No  
IMDG  
UN number: 3261                      Class: 8                      Packing group: III  
Proper shipping name: 5-Chloro-2-Furoic Acid  
Environmental hazards: No  
IATA  
UN number: 3261                      Class: 8                      Packing group: III  
Proper shipping name: 5-Chloro-2-Furoic Acid  
Environmental hazards: No

#### **Section 15 - Regulatory Information**

Safety, health and environmental and national regulations:  
Product is not subject to any additional regulations or provisions  
Safety Assessment  
No Chemical Safety Assessment

#### **Section 16 - Additional Information**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.