



# DSL Chemicals (Shanghai) Co., Ltd.

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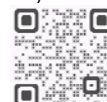
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## MATERIAL SAFETY DATA SHEET

Version 2.0

Revision Date: Jan. 05, 2016



### Section 1 - Product and Company Information

Product Name: 3-(Trifluoromethoxy)benzaldehyde

Product Number: C009480

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 #

3-(Trifluoromethoxy)benzaldehyde

52771-21-8

Formula: C<sub>8</sub>H<sub>5</sub>F<sub>3</sub>O<sub>2</sub>

Molecular Weight: 190.12 g/mol

### Section 3 - Hazards Identification

GHS classification

PHYSICAL HAZARDS

Flammable liquids

Category 4

HEALTH HAZARDS

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 2A

ENVIRONMENTAL HAZARDS

Not classified

GHS label elements, including precautionary statements

Pictograms or hazard symbols



Signal word

Warning

Hazard statements

Combustible liquid

Causes skin irritation

Causes serious eye irritation

Precautionary statements:

[Prevention]

Keep away from flames and hot surfaces.

Wash hands thoroughly after handling.

Wear protective gloves and eye/face protection.

[Response]

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

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Gently wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

[Storage]

Store in a well-ventilated place. Keep cool.

[Disposal]

Dispose of contents/container through a waste management company authorized by the local government.

#### **Section 4 - First Aid Measures**

Inhalation:

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

Get medical advice/attention if you feel unwell.

Skin contact:

Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion:

Get medical advice/attention if you feel unwell. Rinse mouth.

Protection of first-aiders:

A rescuer should wear personal protective equipment, such as rubber gloves and airtight goggles.

#### **Section 5 - Fire Fighting Measures**

Suitable extinguishing media:

Dry chemical, foam, water spray, carbon dioxide.

Unsuitable extinguishing media:

Solid streams of water

Specific hazards arising from the chemical:

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

Precautions for firefighters:

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings:

Remove movable containers if safe to do so.

Special protective equipment for firefighters:

When extinguishing fire, be sure to wear personal protective equipment.

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

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Keep people away from and upwind of spill/leak.

Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

Environmental precautions:

Prevent product from entering drains.

Methods and materials for containment and cleaning up:

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust).

In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

Prevention of secondary hazards:

Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire.  
Use spark-proof tools and explosion-proof equipment.

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

Precautions for safe handling

Technical measures:

Handling is performed in a well ventilated place. Wear suitable protective equipment.

Prevent generation of vapour or mist. Keep away from flames and hot surfaces. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling.

Use a closed system, ventilation.

Advice on safe handling:

Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any incompatibilities

Storage conditions:

Keep container tightly closed.

Store in a cool, dark and well-ventilated place.

Store under inert gas.

Store away from incompatible materials such as oxidizing agents.

Air-sensitive

Packaging material:

Comply with laws.

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

Engineering controls:

Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection:

Vapor respirator. Follow local and national regulations.

Hand protection:

Protective gloves.

Eye protection:

Safety glasses. A face-shield, if the situation requires.

Skin and body protection:

Protective clothing. Protective boots, if the situation requires.

### **Section 9 - Physical and Chemical Properties**

Appearance

Form	Liquid
Colour:	Colorless to light yellow clear
Odour:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Boiling point/range:	No data available
Flash point:	73°C
Flammability or explosive limits:	
Lower:	No data available
Upper:	No data available
Relative density:	1.33
Solubility (ies):	
[Water]	No data available
[Other solvents]	No data available

**Section 10 - Stability and Reactivity**

Chemical stability: Stable under proper conditions.  
Possibility of hazardous reactions:  
No special reactivity has been reported.  
Conditions to avoid: Open flame  
Incompatible materials: Oxidizing agents  
Hazardous decomposition products:  
Carbon monoxide, Carbon dioxide, Hydrogen fluoride

**Section 11 - Toxicological Information**

No data available

**Section 12 - Ecological Information**

No data available

**Section 13 - Disposal Considerations**

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

**Section 14 - Transport Information**

Hazards Class: Does not correspond to the classification standard of the United Nations  
UN-No: Not listed

**Section 15 - Regulatory Information**

Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16, 2011): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

**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.