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MATERIAL SAFETY DATA SHEET

Version 2.0

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Section 1 - Product and Company Information

Product Name: Dimethyl 3,5-Pyrazoledicarboxylate

Product Number: C032177

Company: DSL Chemicals (Shanghai) Co., Ltd

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Section 2 - Composition, Information on Ingredients

Substance Name

CAS #

Dimethyl 3,5-Pyrazoledicarboxylate

4077-76-3

Formula: $C_7H_8N_2O_4$

Molecular Weight: 184.15 g/mol

Section 3 - Hazards Identification

Classification of the substance or mixture

Classification under CHIP:

Xn: R20/21/22

Xi: R36/37/38

Classification under CLP:

Acute Tox. 4: H302+312+332

STOT SE 3: H335

Eye Irrit. 2: H319

Skin Irrit. 2: H315

Most important adverse effects: Harmful by inhalation, in contact with skin and if swallowed.

Irritating to eyes, respiratory system and skin.

Label elements

Label elements under CLP:

Hazard statements:

H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Signal words:

Warning

Hazard pictograms:

GHS07: Exclamation mark



Precautionary statements:	P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection.
Label elements under CHIP:	
Hazard symbols:	Harmful.
Risk phrases:	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R36/37/38: Irritating to eyes, respiratory system and skin.
Safety phrases:	S22: Do not breathe dust. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.
Other hazards	
PBT:	This substance is not identified as a PBT substance.

Section 4 - First Aid Measures

Description of first aid measures

Skin contact:

Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.

Eye contact:

Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion:

Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation:

Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor. Most important symptoms and effects, both acute and delayed

Skin contact:

There may be irritation and redness at the site of contact.

Eye contact:

There may be irritation and redness. The eyes may water profusely.

Ingestion:

There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation:

There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects:

Immediate effects can be expected after short-term exposure.

Indication of any immediate medical attention and special treatment needed

Immediate / special treatment:

Eye bathing equipment should be available on the premises.

Section 5 - Fire Fighting Measures

Extinguishing media:

Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the surrounding fire should be used.

Special hazards arising from the substance or mixture

Exposure hazards:

In combustion emits toxic fumes. Carbon oxides. Nitrogen oxides (NOx).

Advice for fire-fighters:

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

Personal precautions:

Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

Environmental precautions:

Do not discharge into drains or rivers.

Methods and material for containment and cleaning up

Clean-up procedures:

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

Reference to other sections:

Refer to section 8 of SDS.

Section 7 - Handling and Storage

Precautions for safe handling

Handling requirements:

Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

Do not handle in a confined space. Avoid the formation or spread of dust in the air. Only use in fume hood.

Conditions for safe storage, including any incompatibilities

Storage conditions:

Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging:

Must only be kept in original packaging.

Specific end use(s):

No data available.

Section 8 - Exposure Controls, Personal Protection

Control parameters

Workplace exposure limits: Not applicable.

Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency. Respiratory protective device with particle filter.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Section 9 - Physical and Chemical Properties

Physical state (20°C):	Solid
Form:	Powder
Colour:	White or off-white
Odour:	No data available
pH:	No data available
Melting point/freezing point:	158-160°C
Other information:	No data available

Section 10 - Stability and Reactivity

Reactivity:

Stable under recommended transport or storage conditions.

Chemical stability:

Stable under normal conditions.
Possibility of hazardous reactions:
Hazardous reactions will not occur under normal transport or storage conditions.
Conditions to avoid:
Heat.
Materials to avoid:
Strong oxidising agents. Strong acids.
Hazardous decomposition products:
In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

Section 11 - Toxicological Information

Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH DRM ING	Based on test data
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data
STOT-single exposure	INH	Based on test data

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Other information: High hazard Class III chemical : assigned according to Cramer decision tree with extensions (predicted *)

Section 12 - Ecological Information

Toxicity

Ecotoxicity values: Not applicable.

Persistence and degradability: Easily biodegradable (predicted *)

Bioaccumulative potential: No data available.

Mobility in soil

Mobility: No data available.

PBT identification: This substance is not identified as a PBT substance.

Other adverse effects: No data available.

Section 13 - Disposal Considerations

Waste treatment methods

Disposal operations:

MATERIAL SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS

Disposal of packaging:

Dispose of as special waste in compliance with local and national regulations Observe all federal, state and local environmental regulations.

NB:

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14 - Transport Information

Transport class: This product does not require a classification for transport.

Section 15 - Regulatory Information

Chemical safety assessment: A chemical safety assessment has not been carried out for the

substance or the mixture by the supplier.

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.