

Safety Data Sheet

DDI Diisocyanate

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1. Product and Company Identification

Use: Isocyanate used in the manufacturing of polyurethanes

Company

RCS Rocket Motor Components, Inc.
2113 W 850 N
Cedar City, UT 84721, USA

24 Hour Emergency Response Information

INFOTRAC: 1-352-323-3500

Synonyms: Aliphatic Diisocyanate

2. Composition/information on ingredients

General chemical description:

Aliphatic Diisocyanate

| COMPONENT: | CAS-No. | CONCENTRATION (Wt. %): |
|---------------------|------------|------------------------|
| Dimeryldiisocyanate | 68239-06-5 | 100 |

3. Hazards identification

EMERGENCY OVERVIEW

Caution: Low hazard for usual industrial or commercial handling.
Causes respiratory tract irritation.

Delivery state:

liquid

State:

clear

liquid

Color(s):

yellow

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Routes of entry:

Skin contact

Potential Health Acute Effects:**Inhalation:**

Prolonged or excessive inhalation may cause respiratory tract irritation.

Skin contact:

May cause an allergic skin reaction.

May cause slight irritation.

Eye contact:

May cause slight irritation.

Ingestion:

Considered practically non-toxic.

Potential Chronic Health Effects:

None known

4. First aid measures

After inhalation:

Move to fresh air.

Seek medical attention immediately.

After skin contact:

Wash thoroughly with soap and water.

Remove contaminated clothing and footwear.

If adverse health effects develop seek medical attention.

After eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If adverse health effects develop seek medical attention.

After ingestion:

Get medical attention.

5. Fire fighting measures

Flash point:

554 °F (290 °C)

ASTM D 92-97; QP1363.2; Flash and Fire Points by Cleveland Open

Flammable/Explosive limits:**Lower limits:**

Not determined.

Upper limits:

Not determined.

Suitable extinguishing media:

Carbon dioxide.

Dry Chemical

Special protection equipment for firefighters:

Wear full protective clothing.

Wear self-contained breathing apparatus.

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Unusual fire or explosion hazards:
None known

6. Accidental release measures

Environmental precautions:
Add dry material to absorb spill (if large spill, dike to contain).

Methods for cleaning and take-up:
Pick up spilled material and containerize for recovery or disposal.

Conditions to avoid at removal:
Do not use water.

7. Handling and storage

Handling:
Handling advice:
Avoid contact with water.
Ensure good ventilation/suction at the workplace.

Storage:
Storage conditions to keep:
Store in tightly closed containers, cool and dry.

8. Exposure controls/personal protection

Indication for system design:
Ensure adequate ventilation.

Personal protection measures:
Respiratory protection:
Respirator with organic vapor cartridge.
Not applicable with adequate ventilation.

Hand protection:
Protective gloves made of rubber.

Eye protection:
Safety glasses with side shields.

9. Physical and chemical properties

General description:
Delivery state: liquid
State: clear
liquid
Color(s): yellow

| Designation | Value | Method |
|---------------|----------------------|----------------|
| Boiling point | > 540 °C (> 1,004°F) | |
| Density | 0.920 g/cm3 | no information |

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Solubility in Water
Analysis of Volatile matter

Negligible (< 0.1 %)
0 %

no information
no information

10. Stability and reactivity

Stability:

Conditions to avoid:

None if used for intended purpose.

Hazardous decomposition products:

None if used for intended purpose.

Decomposition advices:

No decomposition if used according to specifications.

Reactivity:

Materials to avoid:

Water

Hazardous polymerization:

Will not occur

11. Toxicological information

General toxicological information:

Irritating to respiratory system

Acute oral toxicity:

LD50 > 5000 mg/kg body weight
Method: OECD 401

Skin irritation:

slightly irritating
Method: OECD 404

Eye irritation:

slightly irritating
Method: OECD 405

Sensitizing:

May cause sensitization by inhalation.

12. Ecological information

General ecological information:

no data available

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13. Disposal considerations

Waste disposal of product:

Dispose of in an approved landfill in accordance with federal, state / provincial and local regulations.
This product, if disposed as shipped, is not a hazardous waste as specified in 40 CFR 261.

14. Transport information

General information:

Not hazardous according to RID, ADR, ADNR, IMDG, IATA-DGR, CFR and TDG.

15. Regulatory information

| | |
|---|--|
| TSCA Inventory Status: | This product and/or all of its components are either included on or exempt from the TSCA Inventory of Chemical Substances. |
| SARA 311/312 Hazard Categories: | Delayed Health, Reactive |
| TSCA 12(b) Components: | none |
| SARA 313 Toxic Chemicals: | none |
| SARA 302 Extremely Hazardous Substances: | none |
| CERCLA Hazardous Chemicals: | none |
| California Proposition 65: | No California Proposition 65 listed chemicals are known to be present. |

16. Other information

| NFPA Rating (US) | Value |
|------------------|-------|
| Health | 2 |
| Fire | 1 |
| Reactivity | 1 |
| Special Hazard | |

| HMIS Rating (US) | Value |
|------------------|-------|
| Health | *2 |
| Flammability | 1 |
| Reactivity | 1 |

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