

J-Cast 60 Part B

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product Name: J-Cast 60 Part B
Chemical Name:
Supplier: Jacobson Chemicals Ltd
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 The Crossways
 Churt
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2. COMPOSITION

Substance: Yes
Substance Name: Isophorone Diisocyanate
EC Index No: 615-008-00-5
CAS Number: 4098-71-9
EEC Number: 223-861-6

<u>Constituents</u>	<u>Range</u>	<u>Haz Symt</u>	<u>Risk</u>
Isophorone Diisocyanate	100	T, N	R23, 36/37/38, 42/43

3. HAZARD IDENTIFICATION

The most important hazards are: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Inhalation: Toxic by inhalation, irritating to respiratory system.
Skin Contact: Irritating to skin, may cause sensitization.
Eye Contact: Irritating to eyes, may cause corneal injury.
Ingestion: May cause stomach pains and nausea in large quantities.

4. FIRST AID MEASURES

Immediate medical attention: Yes
Professional assistance from physician required? Yes
Inhalation: Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. Call a physician.
Skin Contact: Flush skin with water for 10 minutes while removing any contaminated clothing and shoes. Wash contaminated clothing before re-use.
Eye Contact: Irrigate with clean water for at least 10 minutes. Obtain medical attention immediately.
Ingestion: If swallowed obtain immediate medical attention. Do not induce vomiting.

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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Water spray, foam, powder, carbon dioxide, dry chemical powder.
Unsuitable extinguishing media:	Water jet.
Special exposure hazards in fire:	Organic material - will support combustion. Combustion products may include oxides of carbon and nitrogen, isocyanate vapour and traces of hydrogen cyanide. Do not breathe smoke. Evacuate downwind personnel.
Required special protective equipment:	Wear positive pressure breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid breathing vapours. Wear suitable protective clothing and respiratory protection.
Methods of Cleaning:	Take up with absorbent (e.g. sawdust, sand or earth) and decontaminate. Refer to the manufacturer for details of suitable decontaminate. Refer to the manufacturer for details of suitable decontaminants. Thoroughly ventilate the affected area before re-entry.
Environmental Precautions:	Prevent entry into drains or watercourses.

7. HANDLING & STORAGE

Handling:	Wear suitable protective clothing, gloves and eye protection. Avoid breathing vapour. Ventilation must be sufficient to keep vapour levels below the MEL.
Storage:	Store at 5-25°C in tightly sealed containers. Protect from excessive heat and contact with water, strong acids, strong alkalis, oxidizing and reducing agents.

8. EXPOSURE CONTROLS

Take measures to prevent:	Accumulation of vapours, breathing of vapour or spray, and contact with skin and eyes.
Exposure to control limits:	MEL: 0.02 mg/m ³ (8hr TWA) as NCO 0.07 mg/m ³ (15 min STEL) as NCO
Respiratory protection:	Local exhaust ventilation or positive breathing apparatus.
Hand Protection:	Impervious gloves, (PVC or rubber).
Eye Protection:	Safety glasses or goggles. Locate eyewash bottle in immediate work area.
Skin Protection:	Impervious gloves (PVC or rubber) and overalls.

Information contained in this document is the result of careful tests carried out objectively. It has been produced to aid the Buyer, but without implying any commitment on our part. The Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for his intended purpose. Since we cannot control the application, process, or use of these products, we cannot accept responsibility therefore.

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9. PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Watery liquid
Odour:	N/a
Colour:	Water white to pale straw.
Boiling Point:	158°C
Melting Point:	-60°C (approx)
Flash Point:	155°C
Flammability:	0.7 - 4.5 vol. % in air
Vapour Pressure:	9x10 ⁻⁴ hPa/20°C 0.02 hPa/50°C
Relative density:	1.06 g/ml
Solubility:	Practically insoluble in water
Other:	Reacts slowly with water.

10. STABILITY & REACTIVITY

Conditions to avoid:	Keep away from moisture. Keep containers tightly closed.
Materials to avoid:	Water, strong inorganic bases, hydroxyl, amine, epoxide & acid groups. Reacts slowly with water to form carbon dioxide, may lead to pressure buildup in closed containers.
Hazardous decomposition products:	Above 250°C and on combustion - oxides of carbon and nitrogen, traces of hydrogen cyanide and isocyanate vapours.

11. TOXICOLOGICAL INFORMATION

LD50 (oral, rat):	4825 mg/kg
LD50 (dermal, rat):	>7000 mg/kg
LC50 (inh. rat):	0.67 mg/L/4.0H (of aerosols). Irritating to skin and eyes.
Toxic by inhalation of aerosols. Vapours are irritating to respiratory system. May cause sensitization by inhalation and skin contact.	

12. ECOLOGICAL INFORMATION

Possible effects:	Will react with moisture to product non-hazardous polyureas.
Behaviour:	As above.
Environmental fate:	<u>Biodegradability:</u> 62% (DOC;modif. OECD screening test / OECD 301 E)
	<u>Toxicity:</u>
	LC50 (Fish): 1.8 mg/L/48h.
	LC50 (Daphnia): 83.7 mg/L/24h
	EC50 (Algae): 118.7 mg/L/72h
	EC10 (Bacteria): 554 mg/L/6h

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13. DISPOSAL CONSIDERATIONS

Likely residues / waste products:	Residues and waste will react slowly with atmospheric moisture.
Safe handling of and residues/waste products:	Dispose of by controlled incineration or decontamination and landfill, subject to local authority regulations. Empty drums should be decontaminated before disposal.

14. TRANSPORT INFORMATION

Special carriage precautions in carriage:	N/a
Classification data:	6.1 Toxic
UN Number:	2290
Proper Shipping Name:	Isophorone diisocyanate
IMO - Sea:	6.1
ICAO - Air:	Packing instructions Passenger: 611 Cargo only: 618
ADR - Road:	19 (c)
Transport Category:	N/a
Limited Quantity Size:	N/a
Additional Data:	Packing Group: III

15. REGULATORY INFORMATION

Supply label information:	TOXIC - Dangerous to the environment - N
Hazard Symbol:	N/a
Risk Phrases:	R23, 35/37/38, 42/43, 51/53
Safety Phrases:	S26, 28, 38, 45

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16. OTHER INFORMATION

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| a) Training needs: | For further information contact our office. |
| b) Recommended uses and restrictions: | Curing agent for use in polyurethane systems. No other use advised. |
| c) Further references: | N/a |
| d) Key data sources: | Manufacturer's data.
Croners Guide to CHIP Regulations
Occupational Exposure Limits. Guidance Note
EH40
Approved Supply List (CHIP Regulations 1996) |

The data contained in this Safety Data Sheet has been supplied as required, by the Chemicals (Hazard Identification and Packaging) Regulations 1994, as amended, for the purposes of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided.

Please ensure that it is passed to the appropriate person in your company, who is capable of acting on the information.

NOTE:

This data sheet does not constitute a user's assessment of workplace risk as required by HSW Act, COSHH, Management of Health and Safety at Work regulations, or other Health & Safety at Work regulations.