

J-Foam 3087 Part B

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product Name: J-Foam 3087 Part B
Chemical Name:
Supplier: Jacobson Chemicals Ltd
 Unit 4
 Newman Lane Industrial Estate
 Alton
 Hants
 GU34 2QR
Telephone: 01420 86934
Fax: 01420 549574
E-mail: sales@jacobsonchemicals.co.uk

2. COMPOSITION

Substance: Yes
Substance Name: Diphenylmethane-4,4-diisocyanate, isomers, homologues (PMDI)
EC Index No: 615-005-01-6
CAS Number: 9016-87-9
EEC Number: N/a

<u>Constituents</u>	<u>Range</u>	<u>Haz Symt</u>	<u>Risk</u>
Diphenylmethane-4,4-diisocyanate	>25	Harmful	R20-36/37/38-42

3. HAZARD IDENTIFICATION

The most important hazards are: Harmful by inhalation.
Inhalation: Irritating to respiratory system, may cause sensitization by inhalation.
Skin Contact: Irritating to skin.
Eye Contact: Irritating to eyes.
Ingestion: N/a

4. FIRST AID MEASURES

Immediate medical attention: Yes
Professional assistance from physician required? Yes
Inhalation: Keep patient calm, remove to fresh air and seek medical assistance. Symptoms can appear later.
Skin Contact: Wash thoroughly with soap and water.
Eye Contact: Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
Ingestion: Immediately rinse mouth and then drink plenty of water, do not induce vomiting. Seek medical assistance.

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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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Carbon dioxide, dry chemical, foam or water spray (large amounts).
Unsuitable extinguishing media:	Water jet.
Special exposure hazards in fire:	The following can be given off in a fire: carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen cyanide, diphenylmethane-4, 4 diisocyanate.
Required special protective equipment:	Self contained breathing apparatus and protective suit. Fire/explosion fumes should not be inhaled.
Further information:	Keep containers cool if exposed to fire. Gaseous products of degradation can be given off if the product is greatly over heated. Decomposition, risk of bursting. Dispose of fire debris and contaminated extinguishing water in accordance with local authority regulations. Collect separately contaminated extinguishing water, do not allow to reach sewage or effluent systems.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Ensure adequate ventilation. If gases/vapours are formed, full chemical protection suit, respiratory protection.
Methods of Cleaning:	For small quantities cover with suitable absorbent material, sweep up and then dispose of into open topped containers. Decontaminate with a mixture of 90% water, 8% 0.88 Liq ammonia, 2% Lig detergent; by volume.
Environmental Precautions:	Do not let product enter drains.

7. HANDLING & STORAGE

Handling:	Ensure suitable extraction/ventilation during weighing and mixing. Ensure thorough ventilation of stores and work areas. Avoid breathing vapour. If breathable aerosol/dust is formed, wear suitable breathing apparatus. Protect against fire and explosion. Keep away from sources of ignition - No smoking.
Storage:	Keep tightly closed in a dry, cool and well ventilated place. If moisture enters isocyanate containers, carbon dioxide forms and pressure builds up. Do not store together with acids, amines or products containing amines or substances that contain groups with active hydrogen. Store/load separately from food stuffs. Store at 15-20°C.

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8. EXPOSURE CONTROLS

Take measures to prevent:	Inhalation of vapours etc. see section 3.
Exposure control limits, and source:	OEL 0.02 mg.m ⁻³ long term. 0.07 mg.m ⁻³ short term.
Respiratory protection:	Air fed mask with filter suitable for isocyanates.
Hand Protection:	Gloves
Eye Protection:	Face visor.
Skin Protection:	Barrier cream on exposed areas.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Liquid
Odour:	Musty
Colour:	Amber
Boiling Point:	>180°C
Melting Point:	<15°C
Flash Point:	>180°C
Relative Density:	1.25
Viscosity @ 25°C:	180-2000mPas
Vapour pressure:	1.2x10 ⁻² Pa @ 25°C

Reacts slowly with water liberating carbon dioxide gas to form an insoluble polyurea with a high melting point.

10. STABILITY & REACTIVITY

Conditions to avoid:	Avoid thermal decomposition, do not overheat Decomposition begins at 230°C. If moisture enters isocyanate container, carbon dioxide gas forms and the pressure builds up.
Materials to avoid:	Acids, water.
Hazardous decomposition products:	Hazardous reaction influenced by amines or products containing amines, heavy metal salts, substances containing active hydrogen.

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11. TOXICOLOGICAL INFORMATION

Acute toxicity:	The product contains PMDI: LD ₅₀ /oral/rat: >5000mg/kg LD ₅₀ /inhalation/rat: approx 490mg/m ³ per 4 hours (spray)
Subcute-chronic toxicity:	Two year test of inhalation spray >0.2 <1mg/m ³ PMDI findings: when inhaled by rats, the substance causes distinct local irritation with damage to the epithelium. 6mg/m ³ spray PMDI caused similar damage. Following this some animals developed local tumours.
Experience in humans:	Can severely irritate the eyes and respiratory tract depending upon the concentration. Prolonged exposure to the product can result in irritation of the skin and mucus membranes. Symptoms can appear later eg: coughing, shortness of breath, tightness in the chest. Sensitizing: If this substance comes into close contact with the skin of hypersensitive persons, sensitization might occur. Danger of skin sensitization on repeated contact. Can cause sensitization of the respiratory tract in allergic persons. Avoid skin contact and inhalation of dust/aerosol. Experience gained at work place has never revealed and evidence of carcinogenic effects on humans. Additional Information: No reports of ill effects provided product was correctly handled and processed.

12. ECOLOGICAL INFORMATION

Elimination information:	Reacts slowly with water at the interface and liberated CO ₂ to form insoluble polyurea with a high melting point. Experience shows this product to be inert and non-degradable.
Behaviour & environmental fate:	Do not discharge into natural waters without pretreatment. (Biological treatment plant). Prevent product from entering water courses or the ground.

13. DISPOSAL CONSIDERATIONS

Likely residues/waste product:	See section 12. Elimination.
Safe handling of residues/waste products:	Incinerate waste according to local authority regulations. Empty containers must be decontaminated before disposal/recycling.

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14. TRANSPORT INFORMATION

Special carriage precautions in carriage:	By air only.
Transport Label Required:	Miscellaneous
Classification data:	N/a
UN Number:	3082
Packing Group:	III
Proper Shipping Name:	Environmentally Hazardous Substance Liquid N.O.S
Hazard Class:	9
IMO - Sea:	N/a
ICAO - Air:	Environmentally Hazardous Substance Liquid N.O.S
ADR - Road:	N/a
Limited Quantity Size:	N/a
Additional Data:	Technical Name (N.O.S.): Contains methylenediphenyl diisocyanate.

15. REGULATORY INFORMATION

Supply label information:	Contains methylenediphenyl diisocyanate
Hazard Symbol:	Xn Harmful
Risk Phrases:	R20, R36, R42/43, R44
Safety Phrases:	S3/7/9, S23, S36, S28

16. OTHER INFORMATION

a) Training needs:	For further information contact our office.
b) Recommended uses and restrictions:	For use with J-Foam 3087 Part A only.
c) Further references:	
d) Key data sources:	Manufacturer's data.

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.