

# J-Foam 3106 Part B

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

**Product Name:** J-Foam 3106 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:** N/a  
**Substance Name:** N/a  
**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>
-4,4-diisocyanate .	65-70	Harmful	R20-36/37/38-42

## 3. HAZARD IDENTIFICATION

**The most important hazards are:** Harmful by inhalation.  
**Inhalation:** Harmful 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, 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 drink plenty of water, do not induce vomiting, seek medical assistance.

Note to the physician: Treat according to symptoms (decontamination, vital functions). No known specific antidote, administer dexamethasone aerosol to prevent pulmonary odema.

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## 5. FIRE-FIGHTING MEASURES

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<b>Suitable extinguishing media:</b>	Dry powder, foam carbon dioxide, water spray (large amounts).
<b>Unsuitable extinguishing media:</b>	Water jet
<b>Special exposure hazards in fire:</b>	The following are given off in a fire; carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen cyanide, diphenylmethane-4, 4diisocyanate.
<b>Required special protective equipment:</b>	Fire/explosion fumes should not be inhaled. Wear self contained breathing apparatus and protective suit.
<b>Further information:</b>	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.

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## 6. ACCIDENTAL RELEASE MEASURES

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<b>Personal Precautions:</b>	Ensure adequate ventilation. If gases/vapours are formed: full chemical protection suit, respiratory protection.
<b>Methods of Cleaning:</b>	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% Liq detergent; by volume.
<b>Environmental Precautions:</b>	Do not let product enter drains or water course.

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## 7. HANDLING & STORAGE

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<b>Handling:</b>	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.
<b>Storage:</b>	Keep tightly stored 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

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

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance:</b>	Liquid
<b>Odour:</b>	Faint, specific
<b>Colour:</b>	Dark brown
<b>Flash Point:</b>	>200°C
<b>Boiling Point:</b>	>200°C
<b>Melting Point:</b>	<0°C
<b>Relative density:</b>	1.19
<b>Viscosity @ 25°C:</b>	180-2000mPas
<b>Vapour pressure:</b>	1x10 <sup>-5</sup> nPa @ 25°C

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

## 10. STABILITY & REACTIVITY

<b>Conditions to avoid:</b>	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.
<b>Materials to avoid:</b>	Acids, water.
<b>Hazardous decomposition products:</b>	Hazardous reaction influenced by amines or products containing amines, heavy metal salts, substances containing active hydrogen.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Acute toxicity:</b>	The product contains PMDI: LD <sub>50</sub> /oral/rat: >5000mg/kg LD <sub>50</sub> /inhalation/rat: approx 490mg/m <sup>3</sup> per 4 hours (spray)
<b>Subcute-chronic toxicity:</b>	Two year test of inhalation spray >0.2 <1mg/m <sup>3</sup> PMDI findings: when inhaled by rates, the substance causes distinct local irritation with damage to the epithelium. 6mg/m <sup>3</sup> spray PMDI caused similar damage. Following this some animals developed local tumours.
<b>Experience in humans:</b>	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.

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## 12. ECOLOGICAL INFORMATION

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

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## 13. DISPOSAL CONSIDERATIONS

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

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## 14. TRANSPORT INFORMATION

<b>Special carriage precautions in carriage:</b>	No
<b>Classification data:</b>	This product is not classified as dangerous for carriage by road. For labeling for carriage purposes outside the UK, when the following information may be necessary consult the authorities of the countries of transit and destination.
<b>UN Number:</b>	2489
<b>Proper Shipping Name:</b>	Diphenylmethane-4,4-diisocyanate
<b>Additional Data:</b>	Class 6.1
<b>IMO - Sea:</b>	N/a
<b>ICAO - Air:</b>	N/a
<b>ADR/RID:</b>	Item 19c
<b>Hazard No:</b>	60
<b>Packaging Group:</b>	III

## 15. REGULATORY INFORMATION

<b>Supply label information:</b>	Harmful
<b>Hazard Symbol:</b>	Xn
<b>Risk Phrases:</b>	R20, R36/37/38, 42
<b>Safety Phrases:</b>	S26, S28, S38, S45

## 16. OTHER INFORMATION

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| a) <b>Training needs:</b>                    | For further information contact our office. |
| b) <b>Recommended uses and restrictions:</b> | For use with J-Foam 3106 Part A.            |
| c) <b>Further references:</b>                |   |
| d) <b>Key data sources:</b>                  | 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.