



S.D.S. No D026

NAME: Dry Ice

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**5. Fire Fighting measures.**

**Suitable Extinguishers:** Not combustible in normal conditions of handling and use. Gas evolved is used in some fire extinguishers.

**Special Equipment for Fire Fighting:** Self contained breathing apparatus.

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**6. Accidental Release measures.**

**Safety Precautions:** Wear appropriate PPE - See section 8. Evacuate any low lying areas where gas collects.

**Environmental Precautions:** Prevent entry into sumps and work pits.

**Clean up Procedure:** Ensure good ventilation, material will evaporate quickly. Any large spillages may be taken up and held in suitable containers for use or disposal.

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**7. Handling & Storage.**

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**Handling**

**Ventilation:** Good general ventilation, forced ventilation may be required in low lying areas.

**Recommended procedures & equipment:** Avoid contact with skin and eyes. Avoid breathing large quantities of gas.

**Storage**

**Temperature range:** Ambient

**Keep away from:** See section 10

**Suitable storage Media:** Store in insulated containers in well ventilated areas. 8.

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**Exposure Controls/personal protection.**

<b>Exposure Limits</b>	5000ppm (9000mg/m <sup>3</sup> ), 8h TWA; 15000ppm (27000mg/m <sup>3</sup> ), STEL	<b>Type</b>
<b>Monitoring Method</b>	as Carbon dioxide	

**Protective Measures**

**Respiratory:** Positive pressure breathing apparatus if required.

**Hand:** Insulated gloves.

**Eye:** Goggles.

**Skin:** Overalls and boots.

**Hygiene Measures:** Always wash thoroughly after handling chemicals.

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**9. Physical & Chemical Properties.**

<b>Appearance</b>	White blocks, slices or pellets.
<b>Odour</b>	Mild, pungent at high concentrations.
<b>Melting Point/range</b>	-78°C - sublimates.
<b>Flammability</b>	Not combustible in normal conditions of handling and use, gas evolved is used as a fire extinguisher.
<b>Solubility in water</b>	soluble.

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**10. Stability & Reactivity.**

**Stability:** Sublimes continuously.

**Known Hazardous reactions:** Asphyxiant.

**Conditions to avoid:** High temperatures in gas tight containers.

**Hazardous decomposition products:** Asphyxiant gas Carbon dioxide.

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**11. Toxicological Information.**

**Effects**

Inhalation of low concentrations may cause increased breathing rate and a slight feeling of suffocation. As concentrations increase; headaches, dizziness and sweating can occur; Breathing becomes laboured, judgement becomes impaired and unconsciousness could occur. At 12%, unconsciousness is immediate and death may occur after a few minutes. Contact with eyes and skin may result in low temperature burns. Ingestion is unlikely as contact would cause burns to mouth and throat. 12.

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**Ecological Information.**

**Environmental Effects:**

No direct information available.

**Mobility:** Evaporates to air, soluble in water forming carbonic acid.

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**13. Disposal considerations.**

**Substance:** Via an authorized waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

**Container:** As substance.

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**14. Transport Information.**

**Not regulated for road transport.**

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**15. Regulatory Information.**

**Supply label details:** Ref. CHIP 2

**Label Name** Dry Ice

**Symbol** }

**Risk phrases** } No risk or safety phrases stipulated.

**Safety phrases** }

**E.C. No**

**Use of this material may be governed by the following regulations:-**

**Users are advised to consult these regulations for further information.**

The information contained in this data sheet does not constitute an assessment of workplace risks. 16.

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**Other Information.**

**This material is usually used for:**

**It must not be used for:**

Further details may be available upon request from Abbey Chemicals.

**Legal Disclaimer:**

The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specification of the product. The user must satisfy himself that the product is entirely suitable for his purpose.

**Revision No 3 Dated: April 2003**

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**Replaces S.D.S. Dated: October 1998**

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