GREEN GASES
DRY ICE FOR WORK AND LEISURE

Safety Data Sheet - Carbon Dioxide (Solid)

1 IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY
Product name Carbon Dioxide (Solid)
Chemical formula CO_2
Company see footer
identification
Emergency phone Nos 0845 130 3280

2 COMPOSITION/INFORMATION ON INGREDIENTS
Substance/ Substance
Preparation
Components/ Contains no other components
Impurities or impurities which will influence the classification of the product.
CAS Nr 124-38-9
EEC Nr 2046969
(from EINECS)

3 HAZARDS IDENTIFICATION
Hazards identification Refrigerated solidified gas. Contact with product may cause cold burns or frostbite. In high concentrations sublimed vapour may cause asphyxiation.

4 FIRST AID MEASURES
Inhalation of In high concentrations may cause **sublimed vapour** asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Low concentrations of CO_2 cause increased respiration and headache. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.
Skin/eye contact with Immediately flush eyes thoroughly
Carbon Dioxide with water for at least 15 minutes.
(Solid) In case of frostbite spray with tepid water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance.
Ingestion Ingestion is not considered a potential route of exposure.

5 FIRE FIGHTING MEASURES
Specific hazards Non flammable
Hazardous
combustion products None
Suitable extinguishing media
All known extinguishants can be used.
Specific methods Water on Solid Carbon Dioxide increases sublimation. Higher risk of asphyxiation.
Special protective Equipment for fire fighters
In confined space use self contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES
Personal precautions Evacuate area. Use protective clothing. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation.
Environmental Try to stop release.
precautions Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.
Clean up methods Ventilate area.

7 HANDLING AND STORAGE
Handling and storage Use only properly specified equipment which is suitable for this product. Contact your supplier if in doubt. Refer to supplier's container handling instructions. Keep container in a well ventilated place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION
Exposure limit UK: STEL; 15000ppm; LTEL: 5000ppm
Personal protection Ensure adequate ventilation. Protect eyes, face and skin from contact with product.

9 PHYSICAL AND CHEMICAL PROPERTIES
Molecular weight 44
Melting point -56.6°C
Boiling point -78.5°C (sublimes)
Critical temperature 30°C
Relative density, gas 1.52 (air=1)
Relative density, liquid 1.03 (water=1)
Relative density, solid 1.87 (water=1)
Vapour Pressure 20°C 57.3 bar
Solubility mg/l water 2000 mg/l
Appearance/Colour Translucent white solid
Odour No odour warning properties
Other data Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

10 STABILITY AND REACTIVITY
Stability and Stable at atmospheric pressure
reactivity and -78°C. At normal temperatures product sublimes into Carbon Dioxide gas. Contact with solid can cause embrittlement of structural materials.

11 TOXICOLOGICAL INFORMATION
General High concentrations of sublimed vapour cause rapid circulatory insufficiency. Symptoms are headache, nausea and vomiting, which may lead to unconsciousness.