LEAK DETECTOR SPRAY

Issued: 05/10/2004
Revision No: 1

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

Product name: LEAK DETECTOR SPRAY K782330

Synonyms: LDN500

LDN16P

Use / description of product: No significant hazard.

Company name: Energas Limited

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2. COMPOSITION / INFORMATION ON INGREDIENTS

3. HAZARDS IDENTIFICATION

Main hazards: No significant hazard.

Other hazards: This is an aerosol product - use only in well-ventilated areas. Always wash hands after use. Repeated exposure may cause skin dryness or cracking. ALWAYS READ CONTAINER WARNINGS.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: Nausea and stomach pain may occur.

Inhalation: Inhalation of liquid will cause drowning.

4. FIRST AID MEASURES (ACTION)

Skin contact: Wash skin with soap and water. Seek medical attention if skin appears damaged.

Eye contact: NEVER USE AEROSOLS NEAR EYES/MUCOUS MEMBRANES. Immediately wash out the eye with plenty of water for at least 10 minutes holding the eye open. Seek medical attention if symptoms persist.

Ingestion: Unlikely. May cause nausea and discomfort. Carry out gastric lavage to reduce discomfort. The contents would tend to be absorbed by the body with no significant effects, particularly in these concentrations. Treat sympathetically. Seek medical advice

Inhalation: Inhalation of liquid will cause drowning. Nitrogen propellant is unlikely to carry risks in use.

5. FIRE-FIGHTING MEASURES

Extinguishing media: CO2, BCF, Dry Powder, Sand or earth. For larger fires use foam, water fog or spray, avoiding contamination. Use water to cool undamaged stock only. Avoid contamination of the water courses where damaged stock is leaking.

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Exposure hazards: Pressurised aerosols should not be exposed to temperature exceeding 50C. Above this containers may explode and the resultant flammable mixture will burn to produce CO2.

Protection of fire-fighters: Positive pressure breathing apparatus should be used.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Spillage is unlikely in large quantities with an aerosol product. Contents may cause staining and it should be expected that marks will not be able to be removed.

Environmental precautions: In the concentrations within 1-1000 cans the components would not present and environmental hazard as most of the product is water would eventually evaporate, leaving only the residue.

Clean-up procedures: In small quantities any liquid should be absorbed into a suitable media, such as sand and disposed of safely. The residue should be washed with soapy water, though staining should be expected.

7. HANDLING AND STORAGE

Handling requirements: In general handling aerosols should not be considered as hazardous.

Storage conditions: Always store aerosols away from sources of heat, including direct sunlight and in dry conditions. Avoid extremes of temperature and moisture. A stable, cool dry ambient environment is most suitable. Avoid contamination with other products. The containers will not last indefinitely even when stored in a cool dry area, they should be inspected periodically during long-term storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves.

Eye protection: Safety goggles.

Skin protection: Protective clothing with elasticated cuffs and closed neck. Boots made of PVC.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Aerosol

Colour: Pale yellow

Odour: Barely perceptible odour

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Soluble

Viscosity: Viscous

Boiling point/range°C: >100

Melting point/range°C: >-20

Relative density: 0.98kg/m3

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Sources of ignition. Avoid extremes of temperature. Sun light and extreme freezing. Avoid exposure to moisture, which may cause container deterioration and pH, where acidity may

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damage container integrity. Avoid sudden impacts, which may damage container integrity. Avoid contact with water, acids high temperatures. Container corrosion may occur with time and damaged containers should be disposed of before any danger is evident.

Materials to avoid: Water. Acids. Oxidising agents.

11. TOXICOLOGICAL INFORMATION

Chronic toxicity: Inhalation. Skin and/or eye contact.

Routes of exposure: THIS IS DESIGNED FOR EXTERNAL USE ONLY. Essentially, when used in this aerosol form, there are no potential toxic effects. Deliberate inhalation may cause severe pulmonary and breathing difficulty, dizziness (narcosis) and headaches (but this is unlikely in normal use), and would constitute abuse. Skin and eye irritation may result from continued exposure to vapours when used in areas of poor ventilation, or when working in close proximity to the spray for prolonged periods, and suitable steps should be taken to avoid such conditions. Low oral toxicity.

12. ECOLOGICAL INFORMATION

Mobility: This product will evaporate quickly to the air. A yellow liquid, easily absorbed, will evaporate and leave an oily residue. The oily residue will present no other significant hazards, with no dangerous products arising from degradation.

Persistence and degradability: Degradation will be relatively slow though ultimately almost complete.

Bioaccumulative potential: Accumulation is unlikely once physical breakdown commences.

Other adverse effects: Short and long tern effects should not be considered significant. No effects on plant or animals are indicated. There is no ozone depletion, ozone creation or global warming potential. Water treatment plants would not be affected by small to medium volumes of this material.

13. DISPOSAL CONSIDERATIONS

Disposal of packaging: Do not puncture or incinerate/burn, even after use.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

ADR / RID

UN no: 1950 **ADR Class:** 2.2

Shipping name: AEROSOLS NON-FLAMMABLE (capacity less than 1 litre) LIMITED

IMDG / IMO

UN no: 1950 **Marine pollutant:** 203

IATA / ICAO

UN no: 1950 **Class:** 2.2

Packing instructions: 203

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15. REGULATORY INFORMATION

Hazard symbols: No significant hazard.

Precautionary phrases: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.