

SAFETY DATA SHEET



AB/P -AIR BRUSH PROPELLANT (R134A)

1 SUPPLIER

Sealey Quality Machinery,
Kempson Way,
Suffolk Business Park,
Bury St. Edmunds,
Suffolk. IP32 7AR.

Telephone: 01284 757500
Fax: 01284 703534
E-mail: sales@sealey.co.uk
Web: www.sealey.co.uk

2 APPLICATION

AIR BRUSH PROPELLANT

3 COMPOSITION/INFORMATION OF INGREDIENTS

1,1,1,2-Tetrafluoroethane (R134A)

4 HAZARD IDENTIFICATION

Non-flammable compressed gas.

5 FIRST AID MEASURES

Inhalation. In low concentrates may cause narcotic effects. In high concentrates may cause asphyxiation. Symptoms may include dizziness, headache, nausea and loss of co-ordination. Victims may not be aware of asphyxiation. If these symptoms occur, remove them to an uncontaminated area wearing self contained breathing apparatus and keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stops.

Skin/Eye Contact. In case of frostbite spray with water for a least 15 minutes. Apply a sterile dressing and obtain medical assistance. Immediately flush eyes thoroughly with water for at least 15 minutes.

Ingestion. Ingestion is not considered a potential route of exposure.

6 FIRE-FIGHTING MEASURES

Non flammable in temperatures up to 100°C at normal atmospheric pressure. However, mixtures of R134A with high concentrations of air at elevated temperatures can become combustible in the presence of a source of ignition. In case of fire use extinguishing media appropriate for the surrounding material. Exposure to fire may cause containers to rupture/explode and produce the following toxic and/or corrosive fumes: carbonyl fluoride, hydrogen fluoride or carbon monoxide. If possible, stop flow of product and move container away or cool with water from a protected position. Use self-contained breathing apparatus and chemically protective clothing.

7 ACCIDENTAL RELEASE MEASURES

If possible stop release and prevent from entering drains, sewers etc. Recover liquid if feasible. Allow residue to evaporate and ventilate area thoroughly before re-entering. Use appropriate personal protective equipment during clean up. Use self contained breathing equipment if a large spill or leak occurs.

8 STORAGE AND HANDLING

Suck-back of water into container must be prevented, do not allow feedback into the container. Use only properly specified equipment which is suitable for the product, its supply pressure and temperature. Keep container below 50°C in a well ventilated and dry place. Contact with chlorine or strong oxidising agents should be avoided.

9 EXPOSURE CONTROLS/PERSONAL PROTECTION

Recommended exposure limit for this country: 1000ppm. Ensure adequate ventilation. Do not smoke while handling this product. Impervious gloves and chemical splash goggles should be worn if handling in liquid form.

10. PHYSICAL & CHEMICAL PROPERTIES

Appearance/Colour .Colourless gas, liquid under pressure
OdourVery faint ether-like odour
Boiling Point-26.5°C
Melting Point-101°C
Molecular Weight102
Vapour Pressure6.70kg/cm² at 25°C
Liquid Density1.20kg/dm³at250°C
Solubility in WaterInsoluble
Solubility in Organic Solvents - Miscible with most common organic solvents.
Other Data - Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

11. STABILITY & REACTIVITY

Stable under normal conditions. Reacts violently with alkali metals such as sodium, potassium and barium. Zinc, magnesium alloys and aluminium containing more than 2% magnesium may be corroded. Avoid open flames and high temperatures.

12. TOXICOLOGICAL INFORMATION

May produce irregular heart beat and nervous symptoms. Refer also to section 5.

13. ECOLOGICAL INFORMATION

Not currently regulated under the Montreal Protocol. May be used as a replacement for regulated CFCs wherever it is technically appropriate.

Ozone Depletion Factor 0

Global Warming Factor 0.28 (R11 =1)

Partition Coefficient log Pow: 106

Dissociation Constant pka not obtainable, RI34a does not dissociate in water.

Biodegradability 3% after 28 days: RI34a is not readily biodegradeable, but will rapidly volatilise from water or soil.

14. DISPOSAL CONSIDERATIONS

Must not be discharged to atmosphere. Do not discharge in any place where its accumulation could be dangerous. Dispose in accordance with current law and regulation.

15. TRANSPORT INFORMATION

Non hazardous for air, sea and road freight.

16. REGULATORY INFORMATION

The information contained in this Safety Data Sheet does not constitute the user's own assessment of the workplace risk as required by other Health and Safety Legislation. The Provision of the Health and Safety and Work Act, etc. and Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

17. OTHER INFORMATION

Contact with liquid may cause cold burns/frostbite. The hazard of asphyxiation is often overlooked and must be stressed during operator training. Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. This product is not to be used for any purpose other than that described above without first referring to the supplier and obtaining written instructions. As the specific conditions of the use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of the relevant legislation are complied with. The information contained in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides no guidance on health, safety and environmental impacts of the product and should not be construed as any guarantee of technical performance or the suitability for particular applications. Further information and relevant advice can be found in: The Manual Handling Operations Regulations 1992 (SI 1992:2793) The Environmental Protection (Duty of Care) Regulations 1992 (SI 1988:2839) The Control of Substances Hazardous to Health Regulations 1988 (SI 1988:1657)