

SAFETY DATA SHEET

AC2138

PRODUCT NAME: Airco Leak Treat 134
PRODUCT CODE: AC2138
DESCRIPTION: Vehicle air conditioner leak treatment supplied only in 113g sealed canister

SUPPLIER: Primalec
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(2). COMPOSITION INFORMATION:

Proprietary mixture of active ingredients with Polyalkylene Glycol (PAG) and R134a.

Hazardous ingredient

(a) 1,1,1,2- Tetrafluoroethane (HFC134a) CAS No. 811-97-2 EEC No. 212-377-0

This product contains no other hazardous ingredients above the regulated thresholds.

(3). HAZARD IDENTIFICATION:

Human Health

Harmful if inhaled. Skin or eye contact may cause freeze burns. CAUTION: pressurised container. Protect from sunlight, keep away from sources of ignition and away from heat above 45°C. Do not pierce or burn even after use.

Physical/Chemical Hazards

(4). FIRST AID MEASURES:

General	Use good industrial hygiene/safety practices.
Inhalation	Exposure to very high concentration can induce anaesthetic effect. Can act as an asphyxiate by limiting oxygen. Cardiac sensitization to circulating adrenaline-like compounds can result in fatal cardiac arrhythmias. Remove to fresh air. Give artificial respiration if not breathing. Give oxygen if breathing laboured. If cardiac arrest, apply external cardiac massage. Do not administer adrenaline or similar drugs as cardiac arrhythmia may result. Call physician immediately..
Skin Contact	Liquid form of this material may cause freeze burns (frostbite-like lesions). Thaw affected areas with water, remove contaminated clothing carefully. Wash affected areas of skin thoroughly with plenty of warm water. Obtain medical attention. Prolonged contact with skin may cause red skin irritation or dermatitis. Remove oil from skin by washing well with soap and water. Launder clothing before reuse..
Eye Contact	Liquid splashes or vapour spray may cause freeze burns. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for 15 minutes. Have eyes examined and treated by medical personnel..
Ingestion	Extremely unlikely to occur in use. May cause slight irritation if ingested but not toxic. Induce vomiting, seek medical attention.

(5). FIRE FIGHTING MEASURES:

Extinguishing media Water spray, CO2, dry chemical or alcohol foamer
Special fire fighting procedures Heavy vapours can suffocate. Highly toxic decomposition products.
Hazardous thermal (de) composition products Highly toxic decomposition products..
Protection of fire fighters Self-contained breathing apparatus with full facepiece and protective clothing if involved in a fire of other materials.

(6). ACCIDENTAL RELEASE MEASURES:

Personal precautions

Wear suitable protection equipment clothing and remove contaminated clothing as soon as possible.

Environmental precautions

Do not vent R134a to the air. Following instructions provided will prevent accidental escape. Significant spillage is unlikely, due to small quantity in canister.

Methods of cleaning up

R134a will evaporate into the air. Use sand, earth or other suitable inert material to absorb any small spillage of the oil content and collect in sealable containers. Dispose of containers in accordance with local regulations.

(7). HANDLING AND STORAGE:

Handling

Keep away from sources of ignition. Keep away from heat above 45°C. No smoking. Do not breath vapour. Avoid static discharges.

CAUTION: pressurised container.

Storage

Store in a cool place away from sources of ignition, heat and oxidising substances.

(8). EXPOSURE CONTROLS/ PERSONAL PROTECTION:

Control parameters

Exposure via the air and normal handling

Engineering measures

Mechanical ventilation and local exhaust will reduce exposure. Use oil resistant material in construction of handling equipment. Store under recommended conditions (section 7) and avoid overheating.

Personal protection equipment

Respiratory	If ventilation is poor, use suitable mask & filter
Hands	Wear nitrile gloves with cotton knit liner.
Skin and body	Wear suitable protective clothing: Apron, arm covers, or full body suit, depending on conditions.
Eyes	Wear suitable chemical tight safety goggles or glasses and face shield.

(9). PHYSICAL AND CHEMICAL PROPERTIES:

Form	Viscous liquid	Colour	Clear	Odour	slight oil odour
Boiling point > -40° C			Specific gravity > 0.99 - 1.01 @ 20° C		
Solubility	Non soluble in water. Miscible with hydrocarbons and organic solvents				
Vapour pressure	79 psig/Hg at 25° C				
Vapour density < 5.0			Flash point > 200 - 260° Celsius		

Occupational Exposure limits

HAZARDOUS INGREDIENT	LTEL 8hr TWA		STEL		Notes
	ppm	mg/m*	ppm	mg/m*	
1,1,1,2- Tetrafluoroethane (HFC134a)	1000	4240			OES

(10). STABILITY AND REACTIVITY:

Stability

Stable at normal conditions

Avoid

Sources of ignition and heat, oxidising substances or reducing substances.

Hazardous decomposition products

Hydrogen fluoride by thermal decomposition and hydrolysis.

Hazardous reactions

Certain mixtures of HFCs and Chlorine may be flammable or reactive under certain conditions. Incompatible materials: finely divided metals magnesiums and alloys containing more than 2% magnesium. Can react violently if in contact with alkali metals and alkaline earth metals - sodium, potassium and barium.

(11). TOXICOLOGICAL INFORMATION:

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Skin irritation Liquid form of this material may cause freeze burns. Prolonged or repeated contact may cause red skin irritation and dermatitis

Eye irritation Liquid splashes or vapour spray may cause freeze burns

Inhalation Exposure to very high concentration can induce anaesthetic effect.

See also Section 4

(12). ECOLOGICAL INFORMATION:

Mobility

Bio-degradability Not readily biodegradable

(13). DISPOSAL CONSIDERATIONS:

Residues/ contaminated packaging should be regarded as hazardous waste and be disposed of in accordance with local regulations.

(14). TRANSPORT INFORMATION:

The product is supplied in sealed 4 ounce cans (each containing 2 of R134a propellant), which require a special tapping device and hose to access the contents.

PRODUCT IS CLASSED AS CONSUMER COMMODITY

Shipping info. for R134a: UN No.: 3159

Air: ICAO/IATA Class: primary 2.2

Sea: IMDG Class: primary 2.2
Proper shipping name: 1,1,1,2-Tetrafluoroethane

Rail: ADR/RID Class: 2
ADR/RID Item No. 2A
ADR/SIN 3159

US DOT/IMO label: NONFLAMMABLE GAS

(15). REGULATORY INFORMATION

Risk Phrases: R20/21 Harmful if inhaled or in contact with skin

Safety Phrases: S02 Keep out of reach of children
S16 Keep away from sources of ignition
S51 Use only in well ventilated areas
Do not breathe vapour/spray

(16). OTHER INFORMATION:

NPCA-HMIS Rating

Health: 1

Flammability: 0

Reactivity: 1

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed as a guidance for safe handling, use processing, storage, transportation, disposal, and release. It is not to be considered as a warranty or quality specification. The information relates to the specific material designated and may not be valid for such material in combination with any other materials or in any process, unless specified in the text.