

Precision Gas Products Inc.

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Hexane in Air 0.0001% to 0.6%

MATERIAL SAFETY DATA SHEET

Identification

Revision Date 01-01-09

Products Name: HEXANE IN AIR 0.0001% TO 0.6%

CAS Number: N/A

Chemical Family: Gas Mixture

Chemical formula: C₆H₁₄ in Air

MSDS identification Code/ Number: MSDS 120

Composition/ Information on Ingredients

Concentration
Percent by Weight
<0.0001 to 0.6

Ingredient Name

HEXANE CAS Number: 110-54-3

Exposure Limits

- OSHA PEL-TWA: 500 ppm (transitional)
- OSHA PEL-TWA: 50 ppm (final)
- ACGIH TLV-TWA: 50ppm
- IDLH: 5000 ppm

AIR None

99.4 to 99.999

CAS Number: 25635-88-5

Hazard Identification

No data given

First Aid Measures

Eyes

Flush contaminated eyes with copious quantities of water. Part eyelids to assure complete flushing. Continue for 15minutes. Seek medical attention.

Skin

Remove contaminated clothing as rapidly as possible. Flush affected areas with water

Ingestion

Do not induce vomiting as aspiration into the lung may cause pulmonary edema and complications. Do not administer milk, alcohol or fatty foods. Lay victim down in a cool, quiet, well-ventilated area and keep warm with a blanket. Consult a poison control center for instructions as soon as possible.

Inhalation

Prompt medical attention is mandatory in all cases of overexposure. Rescue personnel should be equipped with self-contained breathing apparatus. Victims should be assisted to an uncontaminated area and inhale fresh air. Quick removal from the contaminated area is most important. If breathing has stopped, administer artificial resuscitation and supplemental oxygen. Keep victim warm and quite. Prompt medical attention is mandatory in all cases of overexposure to Hexane.

Fire Fighting Measures

Flammable Properties

Flash Point: None

Lower Explosive Limit (%): 1.1 (Hexane)

Upper Explosive Limit (%): 7.4 (Hexane)

- Fire and Explosion Hazards: Vapors may accumulate in areas with inadequate ventilation possibly forming an explosive atmosphere. Use adequate ventilation. Electrical Classification: Class 1, Group not specified.
- Extinguishing Media: Water (foam), dry chemical, carbon dioxide.
- Fire Fighting Instructions: If possible, stop flow of gas; use water spray to cool containers. Wear self-contained breathing apparatus and other protective clothing.

Accidental Release Measures

Evacuate all personnel from affected areas. Use appropriate protective equipment. If leak is in user's equipment, be certain to purge piping with an inert gas prior to attempting repairs. If leak is in container or container valve, contact CHEMTREC location for emergency assistance.

Handling and Storage

- Handling and Storage Precautions

Use only in well – ventilated areas. Valve protection caps must remain in place unless container is secured with valve outlet piped to use point. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure-reducing regulator when connecting cylinder to lower pressure (<3000 psig) piping or systems. Do not heat cylinder by any means to increase the discharge rate of product from the cylinder. Use a check valve or trap in the discharge line to prevent hazardous back-flow into the system.

Protect cylinders from physical damage. Store in cool, dry, well – ventilated area of noncombustible construction away from heavily trafficked areas and emergency exits. Do not allow the temperature where cylinders are stored to exceed 130°F (54°C). Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Use a “first in, first out” inventory system to prevent full cylinders being stored for excessive periods of time. Post “NO SMOKING OR OPEN FLAMES” signs in the storage area or use area. There should be no sources of ignition in the storage or use area. Never carry a compressed gas cylinder or a container of a gas in cryogenic liquid form in an enclosed space such as a car trunk, van or station wagon. A leak can result in a fire, asphyxiation or toxic exposure.

Exposure Controls/Personal Protection

Engineering Controls: Hood with forced ventilation. Use local exhaust to prevent accumulation above the exposure limit.

Eye/Face Protection: Safety goggles or glasses. Do not wear contact lenses.

Skin Protection: Protective gloves of any material.

Respiratory Protection: Positive pressure air lines with mask or self-contained breathing apparatus should be available for emergency use. Chemical cartridge respirators equipped with organic vapor cartridges may be used when concentrations are below 1000ppm and with adequate oxygen supply.

Physical & Chemical Properties

Appearance: A colorless gas.

Odor: Mild solvent odor

Basic Physical Properties

Solubility (H₂O): Negligible

Stability & Reactivity

Stability: Stable

Incompatible Materials: Oxygen, other oxidizers.

Hazardous Polymerization: Will not occur

