

Safety Data Sheet

UN3163 - Liquefied gas, n.o.s. (Chlorodifluoromethane, Pentafluoroethane, propane) (R-402a)

www.advancedspecialtygases.com

Section 1: Product and Company Identification

Advanced Specialty Gases 135 Catron Dr. Reno, NV 89512 775-356-5500

IN CASE OF EMERGENCY CALL CHEMTREC: 1-800-424-9300

Product Code: UN3163 - Liquefied gas, n.o.s. (Chlorodifluoromethane, Pentafluoroethane, propane) (R-402a)

Section 2: Hazards Identification



Hazard Classification: Gases Under Pressure

Hazard Statements:

Contains gas under pressure; may explode if heated

Precautionary Statements

Storage:

Protect from sunlight. Store in well-ventilated place.

Section 3: Composition/Information on Ingredients

CAS#

75-45-6, 354-33-6, 74-98-6

Chemical Substance	Chemical Family	Trade Names
	Refrigerants	

Section 4: First Aid Measures

Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
Flush with water	Flush with water	Unlikely	Move to fresh air. Get medical attention.	Because of possible disturbances of cardiac rhythm, catecholamine drugs should be used with special caution.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Products of Combustion	Protection of Firefighters
Any standard agent	Not available	Not available
		Not available
		Not available
		Not available

Section 6: Accidental Release Measures

Personal Precautions	Environmental Precautions	Methods for Containment
Always wear recommended personal protective equipment		Stop leak if without risk

Methods for Cleanup	Other Information	
Not available	Not available	

Section 7: Handling and Storage

Handling	Storage
Store and use with adequate ventilation. Firmly secure cylinders upright to	Do not get liquid in eyes, on skin, or clothing. Protect cylinders
keep them from falling or being knocked over. Screw valve protection cap	from damage. Use a suitable hand truck to move cylinders; do not
firmly in place by hand. Store only where temperature will not exceed 125F	drag, roll, slide, or drop. Open valve slowly. Close cylinder valve
(52C). Store full and empty cylinders separately. Use a first-in, first-out	after each use; keep closed even when empty. If valve is hard to
inventory system to prevent storing full cylinders for long periods.	open, discontinue use and contact your supplier.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines

Chlorodifluoromethane: 1000 ppm TWA (8hr) Propane: 2500 ppm TWA (8hr)

Engineering Controls

No specific controls are needed.

Eye Protection	Skin Protection	Respiratory Protection	
For normal conditions, wear safety glasses.	General work clothing and leather gloves	Not available	

General Hygiene considerations

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

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Section 9: Physical and Chemical Properties

Physical State	Appearance	Color	Change in Appearance	Physical Form	Odor	Taste
Clear, colorless liquid and	Clear colorless liquid and	Clear	Not available	Liquid and	Not	Not
vapor	vapor	colorless		vapor	available	available

Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits
Not available	Not available	Not available	Not available	Not available	Not available

Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity	Water Solubility	рН	Odor Threshold	Evaporation Rate	Viscosity
-49.2 C	Not available	173 psia at 70F	3.5 (Air =1)	1.14 at 21.1 C	Not available	Neutral	Not available	>1 COMPARED TO: CC14 = 1	Not available

Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
101.5	CHCIF2,CHF2CF3, CH3CH2CH3	Not available	Not available	100%	100%	Not available

Section 10: Stability and Reactivity

Stability	Conditions to Avoid	Incompatible Materials
Stable	Stable	Freshly abraded aluminum surfaces. Potassium, calcium, powdered aluminum, magnesium and zinc

Hazardous Decomposition Products	Possibility of Hazardous Reactions
Halogens, halogen acids and possibly carbonyl halides	Will not occur

Section 11: Toxicology Information

Acute Effects

Oral LD50	Dermal LD50	Inhalation
Not available	Not available	Overexposure may cause dizziness and loss of concentration. Low in acute toxicity in animals

Eye Irritation	Skin Irritation	Sensitization
Liquid contact may cause irritation and frostbite	Irritation would result from defatting action on tissue	No health hazards classified.

Chronic Effects

Carcinogenicity	Mutagenicity	Reproductive Effects	Developmental Effects
Not available	Not available	Not available	No data

Section 12: Ecological Information

Fate and Transport

Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment
Fish toxicity: not available Invertibrate toxicity: not available Algal toxicity: not available Phyto toxicity: not available Other toxicity: not available	Not available	Not available	Not available

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Section 13: Disposal Considerations

Disposal must comply with federal, state, and local disposal or discharge laws.

Section 14: Transportation Information

U.S. DOT 49 CFR 172.101

Proper Shipping Name	ID Number	Hazard Class or Division	Packing Group	Labeling Requirements	Passenger Aircraft or Railcar Quantity Limitations	Cargo Aircraft Only Quantity Limitations	Additional Shipping Description
Liquefied gas, n.o.s. (Chlorodifluoromethane, Pentafluoroethane, propane)	UN3163	2.2	Not available	Not available	Not available	Not available	Not available

Canadian Transportation of Dangerous Goods

Shipping Name	UN Number	Class	Packing Group / Risk Group
Liquefied gas, n.o.s. (Chlorodifluoromethane, Pentafluoroethane, propane)	UN3163	2.2	Not available

Section 15: Regulatory Information

U.S. Regulations

CERCLA Sections	SARA 355.30	SARA 355.40
Not available	Not available	Not available

SARA 370.21

Acute	Chronic	Fire	Reactive	Sudden Release
Not available				

SARA 372.65

Not available

OSHA Process Safety

Not available

State Regulations

CA Proposition 65

Not available

Canadian Regulations

WHMIS Classification

Not available

National Inventory Status

US Inventory (TSCA)	TSCA 12b Export Notification	Canada Inventory (DSL/NDSL)
Not available	Not available	Not available

Section 16: Other Information

NFPA Rating

Health: 2, Flammability: 1, Reactivity: 0

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

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