

Section 1: Identification

GHS Product Identifier: TD42P5

Other Names: TD42PD

Use of Product: Leak Detection

Description: Fluorescent oil for mobile air conditioning systems using R-1234YF

Company Information:

Tracer Products, A Division of Spectronics Corporation

956 Brush Hollow Road

Westbury, New York 11590

800-641-1133

516-333-1254 (for calls originating outside continental U.S.)

sds@tracerline.com

Emergency Contact:

US & Canada 800-424-9300 (24 HOURS) CHEMTREC;

Section 2: Hazardous Identification

Classification of Product:



Pictogram:

Signal Word: Warning

Physical Hazards: No known physical hazards

Health Hazard:

Class	Category	Hazard Statement
Skin Sensitization	1	May cause an allergic skin reaction
Reproductive Toxicity	2	Suspected of damaging fertility or unborn child if swallowed
Environmental	3	Harmful to aquatic life with long lasting effects

Precautionary Statements – Prevention: Obtain Special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, eye & face protection. Avoid breathing mist. Contaminated work clothing should not be allowed outside the workplace.

Precautionary Statements – Response: If exposed or concerned, get medical advice. Take off all contaminated clothing and wash before reuse. IF ON SKIN: wash with plenty of soap and water. Wash contaminated clothing before reuse. IF skin irritation or rash occurs: get medical advice.

Precautionary Statement – Storage: Store Locked Up

Precautionary Statement - Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations

Section 3: Composition

Hazardous Ingredients:

Common Name/ Chemical Name	CAS Number	% W
Polyoxyethylene dimethyl ether	24991-61-5	90-100
Decyloxirane	2855-19-8	1-5
1,2- Epoxytetradecane	3234-28-4	1-5
Tricresylphosphate	1330-78-5	<1

Section 4: First-Aid Measures**Primary Routes of Exposure:**

Inhalation: Remove to fresh air. If symptoms develop, seek immediate medical attention. If not breathing, give artificial respiration.

Eye Contact: Flush eyes with water for 15 minutes. If irritation develops, consult a physician.

Skin Contact: Wash affected area with soap and water and rinse thoroughly. If irritation develops, consult a physician.

Ingestion: Give water. Call a physician immediately. Do not induce vomiting.

Aggravation of Existing Conditions: Exposure to this product is not expected to contribute to, worsen or aggravate any existing medical conditions.

Most Important Symptom: Treat symptomatically.

Section 5: Fire-Fighting Measures

Extinguishing Media: Based on the NFPA guide, use dry chemical, carbon dioxide, water mist, water jet sprays, halogen, or alcohol foam suitable for Class B fires. Use water to cool containers exposed to fire. For large fires, use water spray, fog or alcohol foam, thoroughly drenching the burning material.

Unsuitable Extinguishing Media: High volume water with full jet. Oxidizers and reducers.

Unusual Fire and Hazardous Combustion and Decomposition Products: Smoke, soot, and toxic/irritating fumes (i.e., carbon dioxide, carbon monoxide, etc.). Oxides of nitrogen and carbon.

Fire and Explosion Hazards: May liberate irritating or toxic vapors during combustion or decomposition.

Fire-Fighting Procedures/Equipment: Fire fighters and others who may be exposed to the products of combustion should be equipped with NIOSH-approved, positive-pressure, self-contained breathing apparatus (SCBA) and full protective clothing. Water can be used to cool and protect containers and surroundings.

Section 6: Accidental Release Measures**Non-Emergency Personnel:**

General Advice: Avoid inhalation and contact with skin, eyes, or clothing. Wash hands and face before eating, drinking, or using tobacco products.

Personal Protective Equipment Needed: Wear impervious gloves, shoes, and protective clothing

Emergency Personnel:

Suitable Protective Gear: Wear impervious gloves, shoes and protective clothing.

Unsuitable Protective Gear: Not Applicable

Environmental Precautions: Prevent any contamination of local soils and water supply. Prevent ground water infiltration or any ground penetration. Avoid the spreading or entering into watercourses by using sand, soil, or other types of barriers. If contamination into water course or sewage system, alert appropriate authorities.

Containment/Clean-up Methods:

Containment & Recovery of Product: Contain with absorbent material, such as clay, soil, universal binding medium, or any commercially available absorbent. Shovel reclaimed dye and absorbent into a recovery or salvage drums for disposal. For larger spills, transfer to a salvage tank for recovery or safe disposal. Any residues should be treated like a small spill. This is not a RCRA hazardous waste per Title 40 CFR 261. Stop material from contaminating soil, or from entering sewers or bodies of water. For larger spills, transfer to a salvage tank for safe recovery/disposal. Residues are treated as small spills.

Disposal: Either incinerate or land fill in accordance with applicable local, state and federal regulations.

Section 7: Handling and Storage

Handling Precautions: Use product only in well ventilated areas. Avoid breathing in mists or vapors from a heated product. Avoid formation of mists. Avoid heating product near flash point. Avoid prolonged or repeated contact with skin. Handle in ambient temperature.

Storage Conditions: Store in a cool, dry, well-ventilated area away from heat, ignition sources, and direct sunlight. Always keep containers tightly closed. Store away from oxidizing and reducing agents.

Personal Hygiene: Wash hands before breaks and at the end of the work day. Do not carry cleaning clothes used to absorb product in clothing. General hygiene measures for chemicals apply.

Empty Container Precautions: Do not reuse empty container for any purpose.

Section 8: Exposure Controls/Personal Protection

Occupational Exposure Limits: No exposure limits have been established for this product.

Biological Exposure Limits: No data available

Engineering Controls/Ventilation: Maintain airborne concentrations below the established exposure limits by providing adequate ventilation. General (dilution) ventilation should be acceptable. Additional local exhaust ventilation is recommended where dusts, mists or vapors may be released.

Personal Protective Equipment:

Respiratory Protection: Avoid breathing vapor and/or mist. If occupational exposure limits are exceeded wear NIOSH/OSHA approved equipment. Use a respiratory protection fitted with a combination filter A-P3 for short term use. High airborne concentrations may necessitate the use of self-contained breathing apparatus (SCBA) or a supplied air respirator. Respiratory protection programs must be in compliance with 29 CFR 1910.134.

Skin Protection: Wear protective clothing and appropriate impervious gloves.

Eye Protection: Wear safety goggles with peripheral coverage approved to EU Standard EN 166, AS/NZS 1337. An eye wash facility should be readily available.

Hand Protection: When in contact with material, be sure to use proper gloves approved to standards (Europe: EN 374, U.S.: F739, & AS/NZS: 2161). Gloves made from neoprene, nitrile or butyl rubber may provide suitable chemical protection.

Hygiene Measures: Wash thoroughly after handling, especially before eating, drinking, smoking, or using restroom facilities.

Section 9: Physical and Chemical Properties

Physical State: Liquid

Appearance: Pale yellow

Odor: Mild

Odor Threshold: No data available

pH: No data available

Melting/ Freezing Point: No data available

Boiling Point/Boiling Range: No data available

Flash Point: 367°F (186°C)

Evaporative Rate: No data available

Solid/Gas Flammability: No data available

Upper/Lower Explosive Limit: No data available

Vapor Pressure 68° F (20° C): <0.01 mmHg @ 20° C

Vapor Density (Air=1): No data available

Relative Density: 0.98

Solubility in Water: Insoluble

Partition Coefficient: n-octanol/water: No data available

Auto-ignition Temperature: No data available

Decomposition Temperature: >392° F (200° C)

Viscosity at 40°C: 42.71 cSt

Viscosity at 100°C: 9.56 cSt

Section 10: Stability and Reactivity

Reactivity: This product is non-reactive under ambient conditions

Stability: Stable under normal conditions of use. Can decompose slowly with localized heating over 300°C

Conditions to Avoid: High temperatures & a source of ignition. Toxic fumes may be released if product is heated above decomposition point.

Incompatible Materials: Strong Acids, Strong oxidizing agents, and Reducing agents

Hazardous Decomposition Products: In the event of combustion, CO and CO₂ will be formed.

Hazardous Polymerization: Will not occur

Section 11: Toxicological Information

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		Polyoxyethylene Dimethyl Ether	Decyloxirane	1,2 - Epoxytetradecane	Tricresylphosphahte
Oral LD ₅₀	Rat	>2,000 mg/kg	>2,000 mg/kg	>2,000 mg/kg	>2,000 mg/kg
Dermal LD ₅₀	Rabbit	>2,000 mg/kg	>2,000 mg/kg	>2,000 mg/kg	>2,000 mg/kg
Inhalation LC ₅₀	Rat	>11.1 mg/l	>11.1 mg/l	>11.1 mg/l	>11.1 mg/l
Eye Irritation	Rabbit	Mild Irritation	Mild Irritation	Irritant	Irritant
Skin Irritation	Rabbit	Irritant	Irritant	Irritant	Irritant

Carcinogenicity: According to ACGIH, IARC, NTP, and OSHA, this product is not a hazardous carcinogen to humans.

Reproductive Toxicity: No data available

STOT-single exposure: May cause an allergic skin reaction

STOT-repeated exposure: No data available

Aspiration Hazard: Not an aspiration hazard

Likely Routes of Exposure: Eyes, skin and respiratory tract

Symptoms:

Eye Contact: May cause serious irritation

Skin Contact: Causes skin irritation

Inhalation: May cause mild irritation

Ingestion: May cause gastrointestinal irritation

Section 12: Ecological Information

Toxicity:

	Polyoxyethylene Dimethyl Ether	Decyloxirane	1,2 - Epoxytetradecane	Tricresylphosphahte
Fish LL ₅₀ 96hr mg/l	No data available	No data available	No data available	0.6
Crustacean LL ₅₀ 96hr. mg/l	No data available	No data available	No data available	>1,000
Algae NOEL 72hr. mg/l	No data available	No data available	No data available	.404

Persistence & Degradability: No data available

Bioaccumulation Potential: No data available

Mobility in Soil: No data available

Section 13: Disposal Considerations

General Statements: Federal regulations may apply to empty container. State and/or local regulations may be different.

Disposal: Recover or recycle if possible, otherwise, dispose of in accordance with all local, state, and federal regulations. Sewage disposal is discouraged

Special Instructions: Be sure to contact the appropriate government environmental agencies if further guidance is required. Do not remove labels from container until container is cleaned properly. Containers can be reused or disposed of by landfill or incineration if appropriate to local law. Water with cleaning agents is required

Hazardous Waste Number: Not a RCRA hazardous waste

Section 14: Transportation

49 CFR:

DOT Shipping Name: Environmentally hazardous substance, liquid, n.o.s (Decyloxirane, Dodecyloxirane)

Transport Hazard Class: 9

DOT Identification No.: UN3082

Packing Group: III

DOT Label: 9

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Special Provisions: 8, 146, 173, 335, IB3, T4, TP1, TP29

Exceptions: 155

Non-Bulk: 203

Bulk: 241

Quantity Limits: No limit

Transport by Road/Rail (ADR/RID):

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s (Decyloxirane, Dodecyloxirane)

UN Identification No.: UN3082

Transport Hazard Class: 9

Packing Group: III

LQ: 5L

Environmental Hazard: Yes

Tunnel Restriction Code: Not Applicable

Transport by Sea (IMDG):

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s (Decyloxirane, Dodecyloxirane)

UN Identification No.: UN3082

Transport Hazard Class: 9

Packing Group: III

EmS: F-A, S-F

Marine Pollutant: Yes

Environmental Hazard: Yes

Transport by Air (IATA):

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s (Decyloxirane, Dodecyloxirane)

UN Identification No.: UN3082

Transport Hazard Class: 9

Packing Group: III

Environmental Hazard: Yes

Special Precautions for User: Unless otherwise specified, general measures for safe transport must be followed

Transport in Bulk: Not Applicable

Section 15: Regulatory Information

Inventory Status:

Inventory	Status
U.S. TSCA Inventory	Listed
Canadian Domestic Substances List (DSL)	One or more ingredients not listed
Australian Inventory of Chemical Substances (AICS)	One or more ingredients not listed
European Inventory of Existing Commercial Chemical Substances (EINECS)	Listed
Japan Inventory of Existing and New Substances (ENCS)	One or more ingredients not listed
Korea Existing Chemical Inventory (KECI)	One or more ingredients not listed
China Inventory of Existing Chemical Substances (IECSC)	One or more ingredients not listed
Philippine Inventory of Chemicals (PICCS)	One or more ingredients not listed

SARA Title III Information: This product contains no chemicals subject to the reporting requirements of Section 313 of the emergency planning and community right to know act.

SARA - Section 302-Extremely Hazardous Substances: No regulated ingredients.

SARA - Section 302-Reportable Quantity: None.

SARA - Section 311/312-Hazard Categories:

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactivity Hazard: No

Immediate (Acute) Health Hazard: Yes

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Delayed (Chronic) Health Hazard: No

Section 313-Toxic Chemicals: No regulated ingredients

State Right-To-Know: No regulated ingredients

Clean Air Act Amendments - Ozone-Depleting Chemicals: No regulated ingredients

CONEG: This product is in compliance with CONEG (total cadmium, chromium, lead and mercury <100ppm)

CERCLA: No regulated ingredients.

California - California Proposition 65: This product contains no chemical(s) known to the state of California to cause cancer.

Section 16: Other Information

USER'S RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions (in addition to those described herein) are required. Any health hazard and safety information contained herein should be passed on to your customers or employees, as the case may be.

DISCLAIMER OF LIABILITY: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the responsibility of the users to comply with all applicable federal, state and local laws and regulations.

Version 2: Amended emergency contact details

END OF SAFETY DATA SHEET