# **SAFETY DATA SHEET**

Revision date 14-Feb-2025



### **Revision Number** 3

1. Identification		
Product identifier		
Product Name	TP9835, UV Fluorescent Dye for R-1234YF	
Other means of identification		
Product Code(s)	TP9835	
UN number or ID number	UN3082***	
Synonyms	TP9835-1, TP9835-P3	
Recommended use of the chemica	I and restrictions on use	
Recommended use	Refrigerant leak detection	
Restrictions on use	No information available	
Details of the supplier of the safety	/ data sheet	
Manufacturer Spectronics Corporation 265 Spagnoli Road Melville, NY 11747 USA		
E-mail address sds@spectroline.com		
Emergency telephone number		
Emergency Telephone	US & Canada: 800-424-9300 (24 HOURS CHEMTREC) Outside US & Canada: +1 703-741-5970 (24 HOURS CHEMTREC)	
2. Hazard(s) identification		

### **Classification**

Skin sensitization	Category 1***
Reproductive toxicity	Category 2***

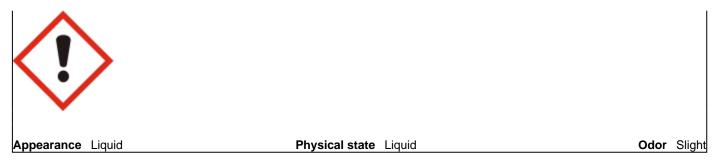
### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

Warning\*\*\*

Hazard statements May cause an allergic skin reaction Suspected of damaging fertility or the unborn child\*\*\*



### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing must not be allowed out of the workplace\*\*\*

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention\*\*\* IF ON SKIN: Wash with plenty of water and soap If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse\*\*\*

### **Precautionary Statements - Storage**

Store locked up\*\*\*

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant\*\*\*

#### Other information

Causes mild skin irritation. Toxic to aquatic life with long lasting effects. Toxic to aquatic life.\*\*\*

### 3. Composition/information on ingredients

#### Substance

Not applicable.\*\*\*

### Mixture \*\*\*

Chemical name	CAS No.	Weight-%	Trade secret
PAG Oil	Trade secret	80 - 90%	*
Oil Additive	Trade secret	1-3	*
Anti-Friction Additive	Trade secret	0-1	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First-aid measures

### **Description of first aid measures**

General advice	Show this safety data sheet to the doctor in attendance.***
Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.***

Ingestion	Rinse mouth.	
Mact important symptoms and offer	to both south and delayed	
Most important symptoms and effect	is, both acute and delayed	
Symptoms	Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.***	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.***	

### 5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.		
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.		
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.***		
Explosion data Sensitivity to mechanical impact None.			
Sensitivity to static discharge	None.		
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.		

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal
	protective equipment as required. Evacuate personnel to safe areas. Keep people away
	from and upwind of spill/leak.***

### Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

### 7. Handling and storage

### Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes.\*\*\*

Conditions for safe storage, including any incompatibilities

**Storage Conditions** 

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.\*\*\*

### 8. Exposure controls/personal protection

Control parameters
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Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational
	exposure limits established by the region specific regulatory bodies.

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Annronriate	engineering	controls
Appropriate	engineering	001101013

Engineering controls	Showers	
	Eyewash stations	
	Ventilation systems.	

Individual p	protection m	easures, s	such as	personal	protective	equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).***
Hand protection	Wear suitable gloves.***
Skin and body protection	Wear suitable protective clothing.***
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and
	immediately after handling the product.***

### 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state	Liquid	
Appearance	Liquid	
Color	amber	
Odor	Slight	
Odor threshold	No information available	
Property	<u>Values</u>	Remarks • Method
рН	No data available	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling rang	eNo data available	None known
Flash point	170.5 °C*** /*** 338.9 °F***	None known
Evaporation rate	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	0.986	None known
Water solubility	Insoluble in water	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known

Decomposition temperature Kinematic viscosity Dynamic viscosity	55.5 mm²/s No data available	None known @ 40 °C None known
Other information Explosive properties Oxidizing properties Softening point Molecular weight VOC content Liquid Density Bulk density	No information available No information available No information available No information available No information available No information available No information available	

### 10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	None known based on information supplied.

### 11. Toxicological information

### Information on likely routes of exposure

Product Information	***
Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes mild skin irritation.***
Ingestion	Specific test data for the substance or mixture is not available.
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.***
Acute toxicity	
Numerical measures of toxicity	
The following values are calculated ATEmix (oral) ATEmix (dermal) ATEmix (inhalation-gas) ATEmix (inhalation-dust/mist) ATEmix (inhalation-vapor)	d based on chapter 3.1 of the GHS document *** 99,999.00*** mg/kg*** 5,825.80*** mg/kg*** 99,999.00*** ppm*** 99,999.00*** mg/l*** 99,999.00*** mg/l***
Component Information Chemical name	Oral LD50         Dermal LD50         Inhalation LC50

Oil Additive	-	> 2000 mg/kg (Rat)***	-
Anti-Friction Additive	> 20000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 5.2 mg/L (Rat)4 h

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Classification based on data available for ingredients. Causes mild skin irritation.***
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	May cause an allergic skin reaction.***
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. Suspected of damaging fertility or the unborn child.***
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.
Other adverse effects	No information available.
Interactive effects	No information available.

### 12. Ecological information

Ecotoxicity

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.\*\*\*

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Anti-Friction Additive		LC50: 0.1 - 0.22mg/L (96h, Lepomis macrochirus) LC50: 0.21 - 0.32mg/L (96h, Oncorhynchus mykiss) LC50: 3.3 - 6.2mg/L (96h, Oncorhynchus mykiss) LC50: 20.4 - 41.2mg/L (96h, Lepomis macrochirus) LC50: 3.2 - 10mg/L (96h, Oryzias latipes) LC50: 4.8 - 6.4mg/L (96h, Poecilia reticulata)		-

### **Bioaccumulation**

Component Information	***	

Chemical name	Partition coefficient
Oil Additive	5.9***
Anti-Friction Additive	5.93

Other adverse effects

No information available.

### 13. Disposal considerations

Dis	posal	met	hod	5
DIS	μυδαι	meu	nou	э

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

## 14. Transport information

DOT	***
UN number or ID number	UN3082***
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.***
Transport hazard class(es)	9***
Packing group	III***
Special Provisions	8, 146, 173, 335, 441, IB3, T4, TP1, TP29***
DOT Marine Pollutant	I***
Marine pollutant	Phosphoric acid, tris(methylphenyl) esters***
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Phosphoric acid,
Emergency Response Guide	tris(methylphenyl) esters), 9, III, Marine pollutant***
Number	171***
<u>TDG</u>	***
UN number or ID number	UN3082***
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.***
Transport hazard class(es)	9***
Packing group	III***
Special Provisions	16, 99***
Marine pollutant name	decyloxirane.***
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (decyloxirane), 9, III***
MEX UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Technical Name Description Special Provisions ICAO (air) UN number or ID number UN proper shipping name	*** UN3082*** Environmentally hazardous substance, liquid, n.o.s.*** 9*** III*** decyloxirane, Tris(methylphenyl) phosphate*** UN3082, Environmentally hazardous substance, liquid, n.o.s. (decyloxirane, Tris(methylphenyl) phosphate), 9, III*** 274, 331, 335, 375*** *** UN3082*** Environmentally hazardous substance, liquid, n.o.s.***

Transport hazard class(es)	9***
Packing group	· · · · · · · · · · · · · · · · · · ·
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (decyloxirane,
Special Provisions	Tris(methylphenyl) phosphate), 9, III*** A97, A158, A197, A215***
-	
	***
UN number or ID number	UN3082***
UN proper shipping name Transport hazard class(es)	Environmentally hazardous substance, liquid, n.o.s.***
Packing group	***
Technical Name	decyloxirane, Tris(methylphenyl) phosphate***
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (decyloxirane,
•	Tris(methylphenyl) phosphate), 9, III***
Special Provisions ERG Code	A97, A158, A197, A215*** 9L***
IMDG	***
UN number or ID number	UN3082*** Environmentally hazardous substance, liquid, n.o.s.***
UN proper shipping name Transport hazard class(es)	9***
Packing group	UI***
EmS-No.	F-A, S-F***
Special Provisions	274, 335, 969***
Marine pollutant	
Marine Pollutant	decyloxirane, Tris(methylphenyl) phosphate*** UN3082, Environmentally hazardous substance, liquid, n.o.s. (decyloxirane,
Description	Tris(methylphenyl) phosphate), 9, III, Marine pollutant***
<u>RID</u>	***
UN number or ID number	UN3082***
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.*** 9***
Transport hazard class(es) Packing group	9    ***
Classification code	M6***
Special Provisions	274, 335, 375, 601***
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (decyloxirane,
	Tris(methylphenyl) phosphate), 9, III***
	***
ADR UN number or ID number	UN3082***
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.***
Transport hazard class(es)	9***
Packing group	III***
Classification code	M6***
Tunnel restriction code	(-)*** 074 005 004 075***
Special Provisions	274, 335, 601, 375*** UN3082, Environmentally hazardous substance, liquid, n.o.s. (decyloxirane,
Description	Tris(methylphenyl) phosphate), 9, III, (-)***
ADN	***
UN number or ID number	UN3082***
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.*** 9***
Transport hazard class(es) Packing group	9***    ***
Classification code	M6***
Special Provisions	274, 335, 375, 601***
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (decyloxirane,
	Tris(methylphenyl) phosphate), 9, III***
Equipment Requirements	PP***
15. Regulatory informatio	n and a second se
13. Negulatory informatio	1

International Inventories TSCA

Complies.

DSL/NDSL EINECS/ELINCS	Complies. Complies.
ENCS	Complies.
IECSC	Complies.
KECI	Complies.
PICCS	Does not comply.
AIIC	Complies.
NZIOC	Complies.

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

- EINECS/ELINCS European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- **ENCS** Japan Existing and New Chemical Substances
- **IECSC** China Inventory of Existing Chemical Substances
- KECL Korean Existing and Evaluated Chemical Substances
- PICCS Philippines Inventory of Chemicals and Chemical Substances
- AIIC Australian Inventory of Industrial Chemicals
- NZIOC New Zealand Inventory of Chemicals

#### US Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### US State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Anti-Friction Additive	X	-	-

### U.S. EPA Label Information

#### EPA Pesticide Registration Number Not applicable

### 16. Other information

NFPA HMIS Chronic Hazard Star Leg	Health hazards Health hazards end *= C			nstability 0 Physical hazards	Special hazards $-$ Personal protection $X$
Legend Section 8: E TWA TV		erage)	<b>ety data sheet</b> STEL Sk*		xposure Limit)
Agency for Toxic Subs U.S. Environmental Pr European Food Safety EPA (Environmental P Acute Exposure Guide U.S. Environmental Pr U.S. Environmental Pr Food Research Journa Hazardous Substance International Uniform ( National Institute of Te Australia National Indu NIOSH (National Instit National Library of Me National Library of Me National Toxicology Pi New Zealand's Chemi Organization for Econo	stances and Disease F rotection Agency Cher (Authority (EFSA) Protection Agency) eline Level(s) (AEGL(s rotection Agency Fede rotection Agency High al Database Chemical Information I echnology and Evaluat ustrial Chemicals Notif ute for Occupational S dicine's ChemID Plus dicine's PubMed datal rogram (NTP) cal Classification and omic Co-operation and omic Co-operation and omic Co-operation and	mView Database s)) eral Insecticide, Fungic Production Volume Cl Database (IUCLID) tition (NITE) fication and Assessme Safety and Health)	ide, and Rode hemicals nt Scheme (Ni (CCID) nment, Health, roduction Volu	ICNAS) , and Safety Public ume Chemicals Pr	
Revision date Revision Note <u>Disclaimer</u>		Feb-2025 nformation available.			 

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 only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet