# SAFETY DATA SHEET

Revision date 13-Feb-2025



Revision Number 3

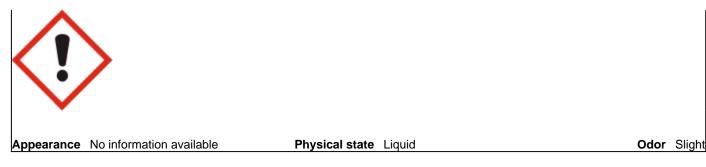
1. Identification		
Product identifier		
Product Name	TP42P, A/C OIL FOR R-1234YF / PAG SYSTEMS	
Other means of identification		
Product Code(s)	TP42P	
UN number or ID number	UN3082***	
Synonyms	TP42P-5	
Recommended use of the chem	ical and restrictions on use	
Recommended use	Lubricant	
Restrictions on use	No information available	
Details of the supplier of the sat	ety data sheet	
<u>Manufacturer</u> 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		
<u>Classification</u>		
Skin sensitization Reproductive toxicity	Category 1*** Category 2***	
Hazards not otherwise classified (HNOC) Not applicable		
l abol olomonts		

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

May be harmful in contact with skin. 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	90 - 100%	*
decyloxirane	2855-19-8	2.25	*
Anti-Friction Additive	Trade secret	0 - 10%	*

\*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.
Most important symptoms and effe	ects, both acute and delayed
Symptoms	Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.***
Indication of any immediate medic	al 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

Large Fire	surrounding environment. 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		
Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.	
Appropriate engineering controls		
Engineering controls	Showers Eyewash stations Ventilation systems.	
Individual protection measures, 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	No information available
Color	light yellow
Odor	Slight
Odor threshold	No information available

Property_	Values_	Remarks • Method	
pH	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	186  °C***  /***  366.8  °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	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	0.98 None known		
Water solubility	Insoluble in water	None known	

Solubility(ies) Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity	No data available No data available No data available 42.7 mm²/s No data available	None known None known None known None known None known 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	
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. May be harmful in contact with skin.***
Ingestion	Specific test data for the substance or mixture is not available.
Symptoms related to the physical, o	chemical and toxicological characteristics

ATEmix (inhalation-vapor)

99,999.00\*\*\* mg/l\*\*\*

Component Information	***					
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50			
decyloxirane 2855-19-8	-	> 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	Delayed and immediate effects as well as chronic effects from short and long-term exposure					
Skin corrosion/irritation	kin corrosion/irritation Classification based on data available for ingredients. Causes mild skin irritation.***					
Serious eye damage/eye irritati	on No information available.	No information available.				
Respiratory or skin sensitizatio	May cause an allergic skir	n reaction.***				
Germ cell mutagenicity	No information available.	No information available.				
Carcinogenicity	No information available.	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.	No information available.				
Aspiration hazard	No information available.					
Other adverse effects	No information available.	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)	

Persistence and degradability

No information available.

\*\*\*

# **Bioaccumulation**

# **Component Information**

Chemical name	Partition coefficient
decyloxirane 2855-19-8	5.9***
Anti-Friction Additive	5.93

Other adverse effects

No information available.

13. Disposal considerations			
Disposal methods			
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

DOTUN number or ID number Proper shipping name Transport hazard class(es) Packing group Special Provisions DOT Marine Pollutant Marine pollutant DescriptionEmergency Response Guide Number	*** UN3082*** Environmentally hazardous substance, liquid, n.o.s.*** 9*** III*** 8, 146, 173, 335, 441, IB3, T4, TP1, TP29*** I*** Phosphoric acid, tris(methylphenyl) esters*** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Phosphoric acid, tris(methylphenyl) esters), 9, III, Marine pollutant*** 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	UN3082***
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.***
Transport hazard class(es)	9***
Packing group	III***
Technical Name	decyloxirane, Tris(methylphenyl) phosphate***

Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (decyloxirane, Tris(methylphenyl) phosphate), 9, III***
Special Provisions	274, 331, 335, 375***
ICAO (air) UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Description Special Provisions	*** UN3082*** Environmentally hazardous substance, liquid, n.o.s.*** 9*** III*** UN3082, Environmentally hazardous substance, liquid, n.o.s. (decyloxirane, Tris(methylphenyl) phosphate), 9, III*** A97, A158, A197, A215***
IATA UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Technical Name Description	*** 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*** A97, A158, A197, A215***
ERG Code <u>IMDG</u> UN number or ID number UN proper shipping name Transport hazard class(es) Packing group EmS-No. Special Provisions Marine pollutant Marine Pollutant Description	9L*** *** UN3082*** Environmentally hazardous substance, liquid, n.o.s.*** 9*** III*** F-A, S-F*** 274, 335, 969*** P*** decyloxirane, Tris(methylphenyl) phosphate*** UN3082, Environmentally hazardous substance, liquid, n.o.s. (decyloxirane, Tris(methylphenyl) phosphate), 9, III, Marine pollutant***
<u>RID</u> UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Classification code Special Provisions Description	*** UN3082*** Environmentally hazardous substance, liquid, n.o.s.*** 9*** III*** M6*** 274, 335, 375, 601*** UN3082, Environmentally hazardous substance, liquid, n.o.s. (decyloxirane, Tris(methylphenyl) phosphate), 9, III***
ADR UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Classification code Tunnel restriction code Special Provisions Description	*** UN3082*** Environmentally hazardous substance, liquid, n.o.s.*** 9*** III*** M6*** (-)*** 274, 335, 601, 375*** UN3082, Environmentally hazardous substance, liquid, n.o.s. (decyloxirane, Tris(methylphenyl) phosphate), 9, III, (-)***
<u>ADN</u> UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Classification code Special Provisions	*** UN3082*** Environmentally hazardous substance, liquid, n.o.s.*** 9*** III*** M6*** 274, 335, 375, 601***

#### Description

**Equipment Requirements** 

UN3082, Environmentally hazardous substance, liquid, n.o.s. (decyloxirane, Tris(methylphenyl) phosphate), 9, III\*\*\* PP\*\*\*

# 15. Regulatory information

International Inventories	
TSCA	Complies.
DSL/NDSL	Complies.
EINECS/ELINCS	Complies.
ENCS	Complies.
IECSC	Complies.
KECI	Complies.
PICCS	Complies.
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	Anti-Friction Additive X		-

# U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information					
<u>NFPA</u> <u>HMIS</u> Chronic Hazard Star Leger		** Flammability **** Flammability onic Health Hazard***		Instability 0 Physical hazards 0	Special hazards $\ -$ Personal protection $\ X$
		onal protection ge)	e <b>ty data sh</b> e STEL Sk*		n Exposure Limit)
	ances and Disease Reg tection Agency ChemV Authority (EFSA) otection Agency) ne Level(s) (AEGL(s)) tection Agency Federal tection Agency High Pr Database nemical Information Da hnology and Evaluation trial Chemicals Notifica te for Occupational Saf cine's ChemID Plus (N cine's PubMed databas gram (NTP) al Classification and Inf nic Co-operation and D nic Co-operation and D	gistry (ATSDR) iew Database I Insecticide, Fungic oduction Volume Cl tabase (IUCLID) n (NITE) ation and Assessme ety and Health) LM CIP) se (NLM PUBMED) ormation Database Development Enviror Development High P	ide, and Ro nemicals nt Scheme (CCID) nment, Heal roduction V	(NICNAS) Ith, and Safety Publication olume Chemicals Program	
date of its publication.	ded in this Safety Data The information give	rmation available. a Sheet is correct t in is designed only	/ as a guida		rmation and belief at the use, processing, storage,

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End of Safety Data Sheet