SAFETY DATA SHEET



Revision date 12-Feb-2025 Revision Number 3

1. Identification

Product identifier

Product Name TP1108, UV Fluorescent A/C Dye for Hybrid Vehicles

Other means of identification

Product Code(s) TP1108

Synonyms TP1108-P3, TP1108-1

Recommended use of the chemical 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***
Germ cell mutagenicity	Category 2***
Reproductive toxicity	Category 2***

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Warning***

Hazard statements

May cause an allergic skin reaction
Suspected of causing genetic defects

Suspected of damaging fertility or the unborn child***



Appearance Liquid Physical state Liquid Odor Slight

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

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
Tris(methylphenyl) phosphate	1330-78-5	1-3	*
Neodecanoic acid, oxiranylmethyl ester	26761-45-5	1-3	*
2,6-di-tert-butyl-p-cresol	128-37-0	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 contactWash with soap and water. May cause an allergic skin reaction. In the case of skin irritation

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or allergic reactions see a physician.***

Ingestion Rinse mouth.

Most important symptoms and effects, both acute and delayed

Symptoms Itching. Rashes. Hives.***

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

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.***

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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 The following ingredients are the only ingredients of the product above the cut-off level (or

level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other

recommended limit. At this time, the other relevant constituents have no known exposure

limits from the sources listed here.***

Chemical name ACGIH TLV		OSHA PEL	NIOSH
2,6-di-tert-butyl-p-cresol	TWA: 2 mg/m ³ inhalable	(vacated) TWA: 10 mg/m ^{3***}	TWA: 10 mg/m ^{3***}
128-37-0	fraction and vapor***		_

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
Appearance
Color
Odor
Liquid
amber
Slight

Odor threshold No information available

Property Values Remarks • Method

No data available None known Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo data available None known 207 °C*** /*** 404.6 °F*** None known Flash point **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

No data available None known Vapor pressure Relative vapor density No data available None known Relative density 0.96 None known Water solubility Insoluble 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** None known Kinematic viscosity 85.6 mm²/s @ 40 °C

No data available None known **Dynamic viscosity**

Other information

No information available **Explosive properties** No information available **Oxidizing properties** No information available Softening point Molecular weight No information available **VOC** content No information available **Liquid Density** No information available **Bulk density** No information available

10. Stability and reactivity

Reactivity No information available.

Stable under normal conditions. Chemical stability

Possibility of hazardous reactions None under normal processing.

None known based on information supplied. Conditions to avoid

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.

May cause sensitization by skin contact. Specific test data for the substance or mixture is Skin contact

not available. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons. (based on components).***

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,***

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document ***

ATEmix (oral) 24,391.90*** mg/kg***
ATEmix (dermal) 10,453.70*** mg/kg***
ATEmix (inhalation-gas) 99,999.00*** ppm***
ATEmix (inhalation-dust/mist) 99,999.00*** mg/l***
ATEmix (inhalation-vapor) 99,999.00*** mg/l***

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Tris(methylphenyl) phosphate 1330-78-5	> 20000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
Neodecanoic acid, oxiranylmethyl ester 26761-45-5	> 10 g/kg (Rat)	> 4000 mg/kg (Rat)	> 240 mg/m³ (Rat)4 h
2,6-di-tert-butyl-p-cresol 128-37-0	> 2930 mg/kg (Rat)	> 2000 mg/kg (Rat)***	-

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

Skin corrosion/irritationNo information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization May cause an allergic skin reaction.***

Germ cell mutagenicity Contains a known or suspected mutagen. Classification based on data available for

ingredients. Suspected of causing genetic defects.***

Carcinogenicity No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.***

The table below indicates whether each agency has never any ingredient as a carein egen.					
Chemical name	ACGIH	IARC	NTP	OSHA	
2,6-di-tert-butyl-p-cresol 128-37-0	-	Group 3***	-	-	

Legend

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans***

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 exposureNo 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
Tris(methylphenyl)	-	LC50: 0.1 - 0.22mg/L	-	-
phosphate		(96h, Lepomis		
1330-78-5		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)		
Neodecanoic acid,	EC50: =3.5mg/L (96h,	LC50: =5mg/L (96h,	-	EC50: =4.8mg/L (48h,
oxiranylmethyl ester	Pseudokirchneriella	Oncorhynchus mykiss)		Daphnia magna)
26761-45-5	subcapitata)			
2,6-di-tert-butyl-p-cresol	EC50: =6mg/L (72h,	-	-	-
128-37-0	Pseudokirchneriella			
	subcapitata)			
	EC50: >0.42mg/L (72h,			
	Desmodesmus			
	subspicatus)***			

Persistence and degradability

No information available.

Bioaccumulation

Component Information

Chemical name	Partition coefficient	
Tris(methylphenyl) phosphate	5.93	
1330-78-5		

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

DOT

Not regulated

IATANot regulatedIMDGNot regulatedRIDNot regulatedADRNot regulated

15. Regulatory information

International Inventories

Complies. **TSCA DSL/NDSL** Complies. **EINECS/ELINCS** Complies. **ENCS** Complies. Complies. **IECSC** Complies. **KECI** Does not comply. **PICCS** Complies. AIIC **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
Tris(methylphenyl) phosphate 1330-78-5	X	-	-
2,6-di-tert-butyl-p-cresol 128-37-0	X***	X***	X***

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA Health hazards 2*** Flammability 1*** Instability 0 Special hazards -Health hazards 2 **** HMIS Flammability 1*** Physical hazards 0 Personal protection X

Chronic Hazard Star Legend * = Chronic Health Hazard*

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA (time-weighted average) STEL STEL (Short Term Exposure Limit) TWA

Ceiling Maximum limit value Sk* Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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Revision Note No information available.

Disclaimer

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End of Safety Data Sheet