

Issue Date 8-Sept-2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name TP-3826

Pure substance/mixture mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Leak detection of CO2 systems

Uses advised against Not Applicable

1.3. Details of the supplier of the safety data sheet

Manufacturer

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@spectroline.com

Emergency Contact:

US & Canada 800-424-9300 (24 HOURS) CHEMTREC; Call collect outside continental US & Canada: 703-527-3887.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin sensitization	Category 1
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 2

2.2. Label elements

Product identifier

**SIGNAL WORD**

Warning

Hazard statements

H317 – May cause an allergic skin reaction

H411 - Toxic to aquatic life with long lasting effects

H400 – Very toxic to aquatic life

Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing dust, fume, gas, mist, vapors, spray

P272 - Contaminated work clothing should not be allowed out of the workplace

P273 - Avoid release to the environment

P280 - Wear protective gloves, protective clothing, eye protection, face protection

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

P321 - Specific treatment (see supplemental first aid instructions on this label)

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P362 + P364 - Take off contaminated clothing and wash it before re-use

P391 - Collect spillage

P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

Causes mild skin irritation

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)

This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not Applicable

3.2 Mixtures

chemical name	EC No	weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
POLYETHER COMPOUNDS	-	80-90	Skin Sens.1 (H317)	Not Applicable
OXIRANE, DECYL-	220-667-3	<1	Skin Irrit. 2 (H315) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Not Applicable
OXIRANE, DODECYL-	221-781-6	<1	Skin Irrit. 2 (H315) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Not Applicable
TRICRESYL PHOSPHATE (meta,para isomer mixed)	215-548-8	<1	Repr. 2 (H361) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Not Applicable
2,6-Di-tert-butyl-p-cresol	204-881-4	<1	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Not Applicable
Fluorescent Dye	-	10-20	Not Applicable	Not Applicable

Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures**4.1. Description of first aid measures**

General advice	Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.
INHALATION	Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Administer oxygen if breathing is difficult.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Eye Contact	In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
INGESTION	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians No information available.

SECTION 5: FIRE FIGHTING MEASURES**5.1. Extinguishing media****Suitable extinguishing media**

Dry chemical, CO₂, water spray or regular foam. Water spray, fog or regular foam. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal.

Unsuitable extinguishing media

Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Some may burn but none ignite readily. Those substances designated with a "P" may polymerize explosively when heated or involved in a fire. Some may be transported hot.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions

Do not touch or walk through spilled material
 Stop leak if you can do it without risk
 Avoid inhalation of asbestos dust

For emergency responders

Use personal protection recommended in Section 8

6.2. Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

6.3. Methods and material for containment and cleaning up**Methods for containment**

Prevent dust cloud

Methods for cleaning up

Cover liquid spill with sand, earth or other non-combustible absorbent material
 With clean shovel place material into clean, dry container and cover loosely; move containers from spill area
 Take up with sand or other non-combustible absorbent material and place into containers for later disposal
 Cover powder spill with plastic sheet or tarp to minimize spreading

6.4. Reference to other sections

See Section 12: ECOLOGICAL INFORMATION.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Use personal protective equipment as required. Avoid breathing vapors or mists.

General hygiene considerations

Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities**Storage Conditions**

Store at ambient conditions. Store in accordance with local regulations.

7.3. Specific end use(s)**Risk Management Methods (RMM)**

The information required is contained in this Material Safety Data Sheet.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

chemical name	European Union	United Kingdom	France	Spain	Germany
2,6-Di-tert-butyl-p-cresol 128-37-0		STEL: 30 mg/m ³ TWA: 10 mg/m ³	TWA: 10 mg/m ³		TWA: 10 mg/m ³ Ceiling / Peak: 40 mg/m ³ Skin
chemical name	Italy	Portugal	Netherlands	Finland	Denmark
2,6-Di-tert-butyl-p-cresol 128-37-0				TWA: 10 mg/m ³ STEL: 20 mg/m ³	TWA: 10 mg/m ³ STEL:20mg/m ³

chemical name	Austria	Switzerland	Poland	Norway	Ireland
2,6-Di-tert-butyl-p-cresol 128-37-0	TWA: 10 mg/m ³				TWA: 10 mg/m ³

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Tight sealing safety goggles.
Hand protection Wear protective nitrile rubber gloves. Thickness: not less than 0.3mm.
Skin and body protection 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. In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid	Odor	characteristic
Appearance	clear	Odor Threshold	No information available
color	light yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		No information available
melting point		
flash point	192 °C / 378 °F	Cleveland Open Cup
Water solubility	Insoluble in water	
Kinematic viscosity 40°C	64.2 mm ² /s	
Kinematic viscosity 100°C	13.39 mm ² /s	

9.2. Other information

Pour point	-50.0> °C
Dropping point	No information available
density @15°C	0.994 g/cm ³

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions

Explosion Data

Sensitivity to Mechanical Impact	none.
Sensitivity to Static Discharge	No information available.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions
None under normal processing.

10.4. Conditions to avoid

Strong oxidizing agents
Heat, flames and sparks

10.5. Incompatible materials

Strong oxidizing agents
Strong bases

10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors

SECTION 11: Toxicological information

11.1. Information on toxicological effects

acute toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

INHALATION	No data available.
Eye Contact	No data available.
Skin Contact	Avoid contact with skin.
INGESTION	No data available.

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

chemical name	Oral LD50	Dermal LD50	Inhalation LC50
TRICRESYL PHOSPHATE (meta,para isomer mixed)	3 g/kg (Rat)	3700mg/kg	>11.1mg/L
2,6-Di-tert-butyl-p-cresol		>2000mg/kg bw	546mg/m ³
Phenol, nonyl-, phosphite (3:1)	10000 mg/kg (Rat)	>2000mg/kg bw	

skin corrosion/irritation	Mild skin irritation
Serious eye damage/eye irritation	No end point data for material.
sensitization	May cause sensitization by skin contact
germ cell mutagenicity	No end point data for material.
carcinogenicity	No end point data for material.
Reproductive Toxicity	Product is or contains a chemical which is a known or suspected reproductive hazard.
STOT - single exposure	No end point data for material.
STOT - repeated exposure	No end point data for material.

aspiration hazard

Not classified.

SECTION 12: Ecological information

12.1. Toxicity**Water hazard class (WGK)**

slightly hazardous to water (WGK 1).

Harmful to aquatic life

chemical name	Algae/aquatic plants	Fish	Crustacea
TRICRESYL PHOSPHATE (meta,para isomer mixed)	-	0.21 - 0.32: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 3.3 - 6.2: 96 h Oncorhynchus mykiss mg/L LC50 static 0.1 - 0.22: 96 h Lepomis macrochirus mg/L LC50 flow-through 20.4 - 41.2: 96 h Lepomis macrochirus mg/L LC50 static 3.2 - 10: 96 h Oryzias latipes mg/L LC50 semi-static 4.8 - 6.4: 96 h Poecilia reticulata mg/L LC50 semi-static	
2,6-Di-tert-butyl-p-cresol	6: 72 h Pseudokirchneriella subcapitata mg/L EC50 0.42: 72 h Desmodesmus subspicatus mg/L EC50	5: 48 h Oryzias latipes mg/L LC50	
Phenol, nonyl-, phosphite (3:1)		10: 96 h Brachydanio rerio mg/L LC50 static	0.42: 48 h Daphnia magna mg/L EC50

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)

This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

chemical name	PBT and vPvB assessment
2,6-Di-tert-butyl-p-cresol	Not Applicable

12.6. Other adverse effects

No known effect

Endocrine Disruptor Information

SECTION 13: Disposal considerations
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13.1. Waste treatment methods

Waste from Residues / Unused Products	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Improper disposal or reuse of this container may be dangerous and illegal.

SECTION 14: Transport information
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IMDG

14.1 UN/ID no	UN3082
14.2 Proper shipping name	Environmentally hazardous substances, liquid, n.o.s
14.3 Hazard Class	9
14.4 Packing group	III
Description	UN3082, Environmentally hazardous substances, liquid, n.o.s, 9, III
14.5 Marine pollutant	Not Applicable
Environmental hazard	Yes
14.6 Special Provisions	274, 335
EmS-No	F-A, S-F

RID

14.1 UN/ID no	UN3082
14.2 Proper shipping name	Environmentally hazardous substances, liquid, n.o.s
14.3 Hazard Class	9
14.4 Packing group	III
Description	UN3082, Environmentally hazardous substances, liquid, n.o.s, 9, III
14.5 Environmental hazard	Yes
Classification code	M6
14.6 Special Provisions	none

ADR

14.1 UN/ID no	UN3082
14.2 Proper shipping name	Environmentally hazardous substances, liquid, n.o.s
14.3 Hazard Class	9
Labels	9
14.4 Packing group	III
Description	UN3082, Environmentally hazardous substances, liquid, n.o.s, 9, III, (E)
14.5 Environmental hazard	Yes
14.6 Special Provisions	274, 335, 601
Classification code	M6
Tunnel restriction code	(E)

IATA

14.1 UN/ID no	UN3082
14.2 Proper shipping name	Environmentally hazardous substances, liquid, n.o.s
14.3 Hazard Class	9
14.4 Packing group	III
Description	UN3082, Environmentally hazardous substances, liquid, n.o.s, 9, III
14.5 Environmental hazard	Yes
14.6 Special Provisions	A97, A158
ERG Code	9L

ADN

14.1 UN/ID no	UN3082
14.2 Proper shipping name	Environmentally hazardous substances, liquid, n.o.s

14.3 Hazard Class	9
Classification code	M6
Hazard label(s)	9
14.4 Packing group	III
14.5 Environmental hazard	Yes
Description	UN3082, Environmentally hazardous substances, liquid, n.o.s, 9, III
14.6 Special Provisions	274, 335, 601
Limited quantity (LQ)	5 L

IBC

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated
Proper shipping name	Not regulated
CATEGORY	Not regulated

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

chemical name	French RG number	Title
TRICRESYL PHOSPHATE (meta,para isomer mixed) 1330-78-5	RG 34	

European Union

Water hazard class (WGK) slightly hazardous to water (WGK 1).

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

15.2. Chemical safety assessment

A Chemical Safety Assessment is not required for this substance

International Inventories

ENCS	Complies
TSCA	Complies
EINECS/ELINCS	Complies
DSL	Complies
KECL	Complies
PICCS	Complies
China (IECSC)	Complies
Taiwan	Complies

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3

H317 - May cause an allergic skin reaction
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects
EUH208 - May produce an allergic reaction

Issue Date 9-Sept-2017

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

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