

(B) (RL)

Page 1 of 18 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 16.03.2020 / 0008 Replacing version dated / version: 24.04.2019 / 0007 Valid from: 16.03.2020 PDF print date: 16.03.2020 TP-3825-100 TRACER® UV Additive for R 1234yf Air Conditioners TP-3825-150 TRACER® UV Additive for R 1234yf Air Conditioners TP-3825-500 TRACER® UV Additive for R 1234yf Air Conditioners TP-3825-0008-EU PAG/SPA2 A/C System Dye TP-3825-5500-EU PAG/SPA2 A/C System Dye TRACER® UV Additive for R 1234yf Air Conditioners

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

**1.1 Product identifier** 

TP-3825-100 TRACER® UV Additive for R 1234yf Air Conditioners TP-3825-150 TRACER® UV Additive for R 1234yf Air Conditioners TP-3825-500 TRACER® UV Additive for R 1234yf Air Conditioners TP-3825-0008-EU PAG/SPA2 A/C System Dye TP-3825-5500-EU PAG/SPA2 A/C System Dye TRACER® UV Additive for R 1234yf Air Conditioners

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

Additives Leak detector **Uses advised against:** No information available at present.

1.3 Details of the supplier of the safety data sheet

®

Dometic Germany GmbH Hollefeldstr. 63 48282 Emsdetten Tel.: +49 (0) 2572 879 0 Fax: +49 (0) 2572 879 300 E-Mail: info@dometic-waeco.de Homepage: www.waeco.com

Dometic UK Ltd Dometic House The Brewery GB- DT11 9LS Blandford St Mary, Dorset Tel.: +44 (0) 0844 626 0133 Fax: +44 (0) 0844 626 0143 E-Mail: automotive@dometic.co.uk Homepage: www.airconstations.co.uk

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

## 1.4 Emergency telephone number Emergency information services / official advisory body:

National Poisons Information Centre, Beaumont Hospital, Dublin 9, Ireland, Tel.: +353 (0)1 809 2166 (Public Poisons Info Line, 8am-10pm, 7 days a week) +353 (0)1 809 2566 (Info for Healthcare Professionals ONLY, 24 h, 7 days a week)

Telephone number of the company in case of emergencies:



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+49 (0) 700 / 24 112 112 (CCWA)

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#### **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP)						
Hazard class	Hazard category	Hazard statement				
Skin Sens.	1	H317-May cause an allergic skin reaction.				
Aquatic Acute	1	H400-Very toxic to aquatic life.				
Aquatic Chronic	2	H411-Toxic to aquatic life with long lasting effects.				

#### 2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)



Warning

H317-May cause an allergic skin reaction. H410-Very toxic to aquatic life with long lasting effects.

P273-Avoid release to the environment. P280-Wear protective gloves. P333+P313-If skin irritation or rash occurs: Get medical advice / attention. P501-Dispose of contents / container to an approved waste disposal facility.

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-methyl-.omega.-methoxy-

#### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substance

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3.2 WIXture	
Poly[oxy(methyl-1,2-ethanediyl)], .alphamethylomegamethoxy-	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	



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TP-3825-5500-EU PAG/SPA2 A/C System Dye	
TRACER® UV Additive for R 1234yf Air Conditioners	
CAC	24004 64 5
CAS	24991-61-5
content %	70-90
Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Sens. 1, H317
Decyloxirane	
Registration number (REACH)	01-2119943390-42-XXXX
Index	
EINECS, ELINCS, NLP	220-667-3
CAS	2855-19-8
content %	1-2,5
Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Irrit. 2, H315
	Aquatic Acute 1, H400 (M=10)
	Aquatic Chronic 1, H410 (M=1)
Dodecyloxirane	
Registration number (REACH)	01-2119943387-29-XXXX
Index	
EINECS, ELINCS, NLP	221-781-6
CAS	3234-28-4
content %	1-2,5
Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Irrit. 2, H315
Classification according to Regulation (EC) 121212000 (CLP)	
	Aquatic Acute 1, H400 (M=100)
	Aquatic Chronic 1, H410 (M=10)
Tris(methylphenyl) phosphate	
Registration number (REACH)	
Index	
EINECS. ELINCS. NLP	215-548-8
EINECS, ELINCS, NLP CAS	215-548-8 1330-78-5
CAS	1330-78-5
CAS content %	1330-78-5 0,1-<1
CAS	1330-78-5 0,1-<1 Repr. 2, H361fd
CAS content %	1330-78-5 0,1-<1 Repr. 2, H361fd Aquatic Acute 1, H400 (M=1)
CAS content %	1330-78-5 0,1-<1 Repr. 2, H361fd
CAS content % Classification according to Regulation (EC) 1272/2008 (CLP)	1330-78-5 0,1-<1 Repr. 2, H361fd Aquatic Acute 1, H400 (M=1)
CAS content % Classification according to Regulation (EC) 1272/2008 (CLP) 2,6-di-tert-butyl-p-cresol	1330-78-5 0,1-<1 Repr. 2, H361fd Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)
CAS content % Classification according to Regulation (EC) 1272/2008 (CLP)	1330-78-5 0,1-<1 Repr. 2, H361fd Aquatic Acute 1, H400 (M=1)
CAS content % Classification according to Regulation (EC) 1272/2008 (CLP) 2,6-di-tert-butyl-p-cresol	1330-78-5 0,1-<1 Repr. 2, H361fd Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)
CAS content % Classification according to Regulation (EC) 1272/2008 (CLP) 2,6-di-tert-butyl-p-cresol Registration number (REACH) Index	1330-78-5         0,1-<1         Repr. 2, H361fd         Aquatic Acute 1, H400 (M=1)         Aquatic Chronic 1, H410 (M=1)         01-2119555270-46-XXXX
CAS content % Classification according to Regulation (EC) 1272/2008 (CLP) 2,6-di-tert-butyl-p-cresol Registration number (REACH) Index EINECS, ELINCS, NLP	1330-78-5         0,1-<1         Repr. 2, H361fd         Aquatic Acute 1, H400 (M=1)         Aquatic Chronic 1, H410 (M=1)         01-2119555270-46-XXXX            204-881-4
CAS content % Classification according to Regulation (EC) 1272/2008 (CLP) 2,6-di-tert-butyl-p-cresol Registration number (REACH) Index EINECS, ELINCS, NLP CAS	1330-78-5         0,1-<1         Repr. 2, H361fd         Aquatic Acute 1, H400 (M=1)         Aquatic Chronic 1, H410 (M=1)         01-2119555270-46-XXXX            204-881-4         128-37-0
CAS content % Classification according to Regulation (EC) 1272/2008 (CLP) 2,6-di-tert-butyl-p-cresol Registration number (REACH) Index EINECS, ELINCS, NLP CAS content %	1330-78-5         0,1-<1         Repr. 2, H361fd         Aquatic Acute 1, H400 (M=1)         Aquatic Chronic 1, H410 (M=1)         01-2119555270-46-XXXX            204-881-4         128-37-0         0,01-<1
CAS content % Classification according to Regulation (EC) 1272/2008 (CLP) 2,6-di-tert-butyl-p-cresol Registration number (REACH) Index EINECS, ELINCS, NLP CAS	1330-78-5         0,1-<1         Repr. 2, H361fd         Aquatic Acute 1, H400 (M=1)         Aquatic Chronic 1, H410 (M=1)         01-2119555270-46-XXXX            204-881-4         128-37-0

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification! For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all

## notes that may be given here for the named classification have been taken into account.

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

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First-aiders should ensure they are protected! Never pour anything into the mouth of an unconscious person! Inhalation Remove person from danger area.



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Supply person with fresh air and consult doctor according to symptoms. Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

#### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Rinse the mouth thoroughly with water.

Give copious water to drink - consult doctor immediately.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. Coughing

eyes, reddened Watering eyes reddening of the skin Allergic reaction Irritation of the mouth and throat

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

Symptomatic treatment.

#### SECTION 5: Firefighting measures

## 5.1 Extinguishing media

Suitable extinguishing media

Water jet spray/foam/CO2/dry extinguisher

#### Unsuitable extinguishing media

High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon Oxides of nitrogen Toxic gases

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

#### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Keep unprotected persons away. Ensure sufficient supply of air. Avoid contact with eyes or skin. If applicable, caution - risk of slipping.

#### 6.2 Environmental precautions If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.



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Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

#### 6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13. Fill the absorbed material into lockable containers.

#### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

#### **SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

#### 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Ensure good ventilation.

Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

#### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Under all circumstances prevent penetration into the soil.

Protect from direct sunlight and warming.

Store in a well-ventilated place.

Store cool.

#### Store in a dry place.

7.3 Specific end use(s)

No information available at present.

**SECTION 8: Exposure controls/personal protection** 

#### 8.1 Control parameters

Chemical Name	2,6-di-tert-butyl-p-cresol			Content %:0,01- <1
WEL-TWA: 10 mg/m3	WEL-STEL:			
Monitoring procedures:				
BMGV:		Other information:	•	
Chemical Name	2,6-di-tert-butyl-p-cresol			Content %:0,01- <1
OELV-8h: 2 mg/m3	OELV-15min:			
Monitoring procedures:				
BLV:		Other information:	-	
Decyloxirane				



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Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	0,171	µg/l	
	Environment - marine		PNEC	0,017	µg/l	
	Environment - water, sporadic (intermittent) release		PNEC	1,71	µg/l	
	Environment - sewage treatment plant		PNEC	3,6	mg/l	
Consumer	Human - oral	Long term, systemic effects	DNEL	6,25	mg/kg bw/d	
Consumer	Human - dermal	Long term, systemic effects	DNEL	6,25	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	10,9	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	10,4	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	36,7	mg/m3	

Dodecyloxirane						
Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater Environment - marine		PNEC PNEC	0,002	µg/l µg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,024	µg/l	
	Environment - sewage treatment plant		PNEC	2,61	mg/l	
Consumer	Human - oral	Long term, systemic effects	DNEL	6,25	mg/kg bw/d	
Consumer	Human - dermal	Long term, systemic effects	DNEL	6,25	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	10,9	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	10,4	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	36,7	mg/m3	

Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - soil		PNEC	1,04	mg/kg wwt	
	Environment - sewage		PNEC	100	mg/l	
	treatment plant					
	Environment - sediment		PNEC	1,29	mg/kg wwt	
	Environment - marine		PNEC	0,4	µg/l	
	Environment - periodic		PNEC	4	µg/l	
	release					



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	Environment - freshwater		PNEC	4	µg/l	
	Environment - oral (animal		PNEC	16,7	mg/kg	
	feed)					
	Environment - soil		PNEC	1,23	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	1,74	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	5	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	5,8	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	8,3	mg/kg bw/day	

Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	0,00014 6	mg/l	
	Environment - sediment, freshwater		PNEC	0,0404	mg/l	
	Environment - sediment, marine		PNEC	0,00404	mg/l	
	Environment - soil		PNEC	0,00000 3	mg/l	
	Environment - marine		PNEC	0,00001 4	mg/l	
	Environment - sewage treatment plant		PNEC	100	mg/l	
Consumer	Human - dermal	Short term, systemic effects	DNEL	37	mg/kg bw/day	
Consumer	Human - dermal	Short term, local effects	DNEL	8	mg/cm2	
Consumer	Human - dermal	Long term, systemic effects	DNEL	1,67	mg/kg bw/day	
Consumer	Human - oral	Short term, systemic effects	DNEL	157,5	mg/kg	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,03	mg/kg	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	0,28	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,06	mg/m3	
Workers / employees	Human - dermal	Short term, local effects	DNEL	16	mg/cm2	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	3,33	mg/kg bw/day	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	74	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	1,11	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,47	mg/m3	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).



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(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

\*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

OELV-8h = Occupational Exposure Limit Value (8-hour reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). |

OELV-15min = Occupational Exposure Limit Value (15-minute reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU. (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).

BLV = Biological limit value | Other information: Carc1A, Carc1B = carcinogenic substance, Cat. 1A or 1B. Muta1A, Muta1B = mutagenic substance, Cat. 1A or 1B. Repr1A, Repr1B = Substances known to be toxic for reproduction, Cat. 1A or 1B. Sk = can be absorbed through skin. Asphx = asphyxiant. Sen = Respiratory sensitizer. BOELV = Binding Occupational Exposure Limit Values. IOELV = Indicative Occupational Exposure Limit Values.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

# 8.2 Exposure controls

## 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and nonmetrological investigative techniques.

These are specified by e.g. BS EN 14042.

BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

#### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Chemical resistant protective gloves (EN 374). If applicable Protective nitrile gloves (EN 374).



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Minimum layer thickness in mm: >= 0,4 Permeation time (penetration time) in minutes: >= 480 Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: Normally not necessary. If air supply is not sufficient, wear protective breathing apparatus.

Thermal hazards: Not applicable

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Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

#### 8.2.3 Environmental exposure controls

No information available at present.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

strinionnation on basic physical and chemic	
Physical state:	Liquid
Colour:	Yellow
Odour:	Characteristic
Odour threshold:	Not determined
pH-value:	n.a.
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	>35 °C
Flash point:	>100 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	n.a.
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined
Vapour pressure:	Not determined
Vapour density (air = 1):	Not determined
Density:	0,864 (relative density)
Bulk density:	n.a.
Solubility(ies):	Not determined
Water solubility:	Insoluble
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	59,3 mm2/s (Not determined )
Explosive properties:	Product is not explosive.



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_ "	<ul> <li>Revision date / version: 16.03.2020 / 0008</li> <li>Replacing version dated / version: 24.04.2019 / 0007</li> <li>Valid from: 16.03.2020</li> <li>PDF print date: 16.03.2020</li> <li>PDF print date: 16.03.2020</li> <li>TP-3825-100 TRACER® UV Additive for R 1234yf Air Conditioners</li> <li>TP-3825-500 TRACER® UV Additive for R 1234yf Air Conditioners</li> <li>TP-3825-0008-EU PAG/SPA2 A/C System Dye</li> <li>TP-3825-5500-EU PAG/SPA2 A/C System Dye</li> <li>TRACER® UV Additive for R 1234yf Air Conditioners</li> </ul>	
	Oxidising properties: 9.2 Other information	No
	Miscibility:	Not de

Miscibility: Fat solubility / solvent: Conductivity: Surface tension: Solvents content: Not determined Not determined Not determined Not determined Not determined

## **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

**10.3 Possibility of hazardous reactions** No dangerous reactions are known.

## 10.4 Conditions to avoid

Heating, open flame, ignition sources

## 10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

#### 10.6 Hazardous decomposition products

No decomposition when used as directed.

## **SECTION 11: Toxicological information**

	Possibly more information on health effects, see Section 2.1 (classification).									
TP-3825-100 TRACER® UV Additive for R 1234yf Air Conditioners										
TP-3825-150 TRACER® UV Additive for R 1234yf Air Conditioners TP-3825-500 TRACER® UV Additive for R 1234yf Air Conditioners										
TP-3825-5500-EU PAG/SPA2										
TRACER® UV Additive for R										
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes				
Acute toxicity, by oral route:	-					n.d.a.				
Acute toxicity, by dermal						n.d.a.				
route:										
Acute toxicity, by inhalation:						n.d.a.				
Skin corrosion/irritation:						n.d.a.				
Serious eye						n.d.a.				
damage/irritation:										
Respiratory or skin						n.d.a.				
sensitisation:										
Germ cell mutagenicity:						n.d.a.				
Carcinogenicity:						n.d.a.				
Reproductive toxicity:						n.d.a.				
Specific target organ toxicity -						n.d.a.				
single exposure (STOT-SE):										
Specific target organ toxicity -						n.d.a.				
repeated exposure (STOT-										
RE):										
Aspiration hazard:						n.d.a.				
Symptoms:						n.d.a.				



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TP-3825-5500-EU PAG/SPA2 A/C System Dye
TRACER® UV Additive for R 1234yf Air Conditioners

-

Poly[oxy(methyl-1,2-ethanediyl)], .alphamethylomegamethoxy-											
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes					
Skin corrosion/irritation:						Not irritant					
Serious eye						Not irritant					
damage/irritation:											
Respiratory or skin						Sensitising					
sensitisation:											
Aspiration hazard:						No					

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat		
Acute toxicity, by dermal	LD50	>2000	mg/kg	Rat	OECD 402 (Acute	
route:					Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
					Irritation/Corrosion)	
Respiratory or skin				Mouse	OECD 429 (Skin	No (skin
sensitisation:					Sensitisation - Local	contact)
					Lymph Node Assay)	
Aspiration hazard:						No

Dodecyloxirane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat		
Acute toxicity, by dermal	LD50	>2000	mg/kg	Rat	OECD 402 (Acute	
route:					Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
					Irritation/Corrosion)	
Respiratory or skin				Mouse	OECD 429 (Skin	No (skin
sensitisation:					Sensitisation - Local	contact)
					Lymph Node Assay)	
Aspiration hazard:						No

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>3700	mg/kg	Rat		Analogous conclusion
Acute toxicity, by dermal route:	LD0	10000	mg/kg	Rabbit		Analogous conclusion
Acute toxicity, by inhalation:	LC50	11,1	mg/l/1h			Aerosol
Skin corrosion/irritation:						Slightly irritant
Serious eye						Slightly irritant
damage/irritation:						
Respiratory or skin				Guinea pig		Negative
sensitisation:						-
Germ cell mutagenicity:					(Ames-Test)	Negative
Carcinogenicity:					, , ,	Negative
Reproductive toxicity:						Positive



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TP-3825-150 TRACER® UV A						
TP-3825-500 TRACER® UV A			nditioners			
TP-3825-0008-EU PAG/SPA2						
TP-3825-5500-EU PAG/SPA2						
TRACER® UV Additive for R 1	234yf Air Cor	ditioners				
Cresifie terret errer terrisity	NOEL	250		Det		
Specific target organ toxicity - repeated exposure (STOT- RE):	NOEL	250	mg/kg	Rat		
2,6-di-tert-butyl-p-cresol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2930	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	<b>_</b> ,	Not irritant
Serious eye damage/irritation:				Rabbit	(Draize-Test)	Not irritant
Respiratory or skin				Human being		No (skin
sensitisation:						contact)
Germ cell mutagenicity:					(Ames-Test)	Negative
Germ cell mutagenicity:				Mouse	in vivo	Negative
Carcinogenicity:	NOAEL	247	mg/kg bw/d	Rat		Negative
Reproductive toxicity (Developmental toxicity):	NOAEL	100	mg/kg	Rat		
Reproductive toxicity (Effects on fertility):	NOAEL	500	mg/kg	Rat		
Specific target organ toxicity - repeated exposure (STOT- RE):	NOEL	25	mg/kg	Rat		(28 d)
Aspiration hazard:						No
Symptoms:						mucous membrane
						irritation

# **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).											
TP-3825-100 TRACER® UV Additive for R 1234yf Air Conditioners											
TP-3825-150 TRACER® UV Additive for R 1234yf Air Conditioners											
TP-3825-500 TRACER® UV Additive for R 1234yf Air Conditioners											
TP-3825-0008-EU PAG/SPA2 A/C System Dye											
TP-3825-5500-EU PAG											
TRACER® UV Additive	for R 1234yf A	ir Conditie	oners								
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.1. Toxicity to fish:							n.d.a.				
12.1. Toxicity to							n.d.a.				
daphnia:											
12.1. Toxicity to algae:							n.d.a.				
12.2. Persistence and							n.d.a.				
degradability:											
12.3. Bioaccumulative							n.d.a.				
potential:											
12.4. Mobility in soil:							n.d.a.				
12.5. Results of PBT	2.5. Results of PBT n.d.a.										
and vPvB assessment											
12.6. Other adverse n.d.a.											
effects:											



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Poly[oxy(methyl-1,2-et	Poly[oxy(methyl-1,2-ethanediyl)], .alphamethylomegamethoxy-											
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes					
12.5. Results of PBT							No PBT					
and vPvB assessment							substance, No					
							vPvB substance					

Decyloxirane										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
12.5. Results of PBT							No PBT			
and vPvB assessment							substance, No			
							vPvB substance			
12.1. Toxicity to	EC50	48h	0,171	mg/l	Daphnia magna	OECD 202				
daphnia:						(Daphnia sp.				
						Acute				
						Immobilisation				
						Test)				
12.1. Toxicity to algae:	EC50	72h	0,056	mg/l	Pseudokirchnerie	OECD 201				
				-	lla subcapitata	(Alga, Growth				
						Inhibition Test)				
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,00416	mg/l	Pseudokirchnerie	OECD 201				
					lla subcapitata	(Alga, Growth				
						Inhibition Test)				

Dodecyloxirane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
12.1. Toxicity to algae:	EC50	72h	0,00236	mg/l	Pseudokirchnerie	OECD 201	
					lla subcapitata	(Alga, Growth	
						Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,00165	mg/l	Pseudokirchnerie	OECD 201	
					lla subcapitata	(Alga, Growth	
						Inhibition Test)	

Tris(methylphenyl) phosphate											
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.1. Toxicity to fish:	LC50	96h	0,6	mg/l							
12.1. Toxicity to fish:	NOEC/NOEL	28d	0,01	mg/l	Oncorhynchus mykiss						
12.1. Toxicity to daphnia:	EC50	48h	0,14	mg/l	Daphnia magna						
12.1. Toxicity to algae:	EC50	72h	0,4	mg/l	Desmodesmus subspicatus						
12.2. Persistence and degradability:			80	%							
12.3. Bioaccumulative potential:	BCF		144								
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance				



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Toxicity to bacteria:	EC50	>10000 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other information:						Does not contain any organically bound halogens which can contribute to the AOX value in waste water.

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.4. Mobility in soil:	Log Koc		3,9-4,2				
Other information:	Koc		14750				
Other information:	Log Koc		3,9-4,2				
12.1. Toxicity to fish:	LC50	96h	>0,57	mg/l	Brachydanio rerio	84/449/EEC C.1	
12.1. Toxicity to fish:	NOEC/NOEL	42d	0,053	mg/l	Oryzias latipes	OECD 210 (Fish, Early-Life Stage Toxicity Test)	
12.3. Bioaccumulative potential:			230- 2500		Cyprinus carpio	OECD 305 (Bioconcentration - Flow-Through Fish Test)	56d
12.1. Toxicity to daphnia:	EC50	48h	0,45	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,023	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,4	mg/l	Desmodesmus subspicatus	84/449/EEC C.3	
12.1. Toxicity to algae:	EC50	72h	>0,4	mg/l	Desmodesmus subspicatus	84/449/EEC C.3	
12.2. Persistence and degradability:		28d	4,5	%		OECD 301 C (Ready Biodegradability - Modified MITI Test (I))	Not readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		5,1				High
12.3. Bioaccumulative potential:	BCF		>2000		Cyprinus caprio	OECD 305 (Bioconcentration - Flow-Through Fish Test)	



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					1		
12.4. Mobility in soil:	Koc		14750				
12.5. Results of PBT							No PBT
and vPvB assessment							substance
Toxicity to bacteria:	EC50	3h	>10000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other information:	AOX						Does not contain any organically bound halogens which can contribute to the AOX value in waste water.
Water solubility:			0,00076	g/l			

## **SECTION 13: Disposal considerations**

## **13.1 Waste treatment methods**

#### For the substance / mixture / residual amounts

EC disposal code no .:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU) 07 03 99 wastes not otherwise specified Recommendation: Sewage disposal shall be discouraged. Pay attention to local and national official regulations. E.g. suitable incineration plant. E.g. dispose at suitable refuse site. For contaminated packing material Pay attention to local and national official regulations. Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

#### **SECTION 14: Transport information**

#### **General statements** 14.1. UN number:

3082 Transport by road/by rail (ADR/RID) 14.2. UN proper shipping name: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DECYLOXIRANE, DODECYLOXIRANE) 14.3. Transport hazard class(es): 9 14.4. Packing group: Ш Classification code: M6





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LQ:	5 L	
14.5. Environmental hazards:	environmentally hazardous	
Tunnel restriction code:	-	
Transport by sea (IMDG-code)		
14.2. UN proper shipping name:		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.	S. (DECYLOXIRANE,DODECYLOXIRANE)	afh
14.3. Transport hazard class(es):	9	3
14.4. Packing group:	III	¥
EmS:	F-A, S-F	
Marine Pollutant:	Yes	Ť
14.5. Environmental hazards:	environmentally hazardous	
Transport by air (IATA)		
14.2. UN proper shipping name:		
Environmentally hazardous substance, liquid, n.o.s. (DECYLOXIR/		ளிந
14.3. Transport hazard class(es): 14.4. Packing group:	9 III	¥
14.5. Environmental hazards:	environmentally hazardous	<₩_>
14.6. Special precautions for user	environmentally hazardous	$\bigtriangledown$
Persons employed in transporting dangerous goods must be traine	d	
All persons involved in transporting must observe safety regulation		
Precautions must be taken to prevent damage.		
14.7. Transport in bulk according to Annex II of M	ARPOL and the IBC Code	
Freighted as packaged goods rather than in bulk, therefore not app		
Minimum amount regulations have not been taken into account.	bicable.	
Danger code and packing code on request.		
Comply with special provisions.		
SECTION 45. Dom	latory information	
SECTION 15: Regu	natory information	
15.1 Safety, health and environmental regulations	shegislation specific for the substance	or mixture

Observe restrictions:

Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements
E1		100	200
E2		200	500

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC):

0,765 %

Observe incident regulations.

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

**SECTION 16: Other information** 



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Revised sections:

1

Employee training in handling dangerous goods is required. These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.

# Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Skin Sens. 1, H317	Classification according to calculation procedure.
Aquatic Acute 1, H400	Classification according to calculation procedure.
Aquatic Chronic 2, H411	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Skin Sens. — Skin sensitization Aquatic Acute — Hazardous to the aquatic environment - acute Aquatic Chronic — Hazardous to the aquatic environment - chronic Skin Irrit. — Skin irritation Repr. — Reproductive toxicity

#### Any abbreviations and acronyms used in this document:

acc., acc. to according, according to ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approximately approx. Art., Art. no. Article number ASTM ASTM International (American Society for Testing and Materials) BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BSEF The International Bromine Council body weight bw CAS Chemical Abstracts Service CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level dw dry weight for example (abbreviation of Latin 'exempli gratia'), for instance e.g. European Community EC ECHA European Chemicals Agency



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TRACER® UV Additive for R 1234yf Air Conditioners
EEC European Economic Community
ELINCS European List of Notified Chemical Substances
EN European Norms
EPA United States Environmental Protection Agency (United States of America)
etc. et cetera
EU European Union
EVAL Ethylene-vinyl alcohol copolymer
Fax. Fax number
gen. general
GHS Globally Harmonized System of Classification and Labelling of Chemicals
GWP Global warming potential
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IBC (Code) International Bulk Chemical (Code)
IMDG-code International Maritime Code for Dangerous Goods
incl. including, inclusive
IUCLIDInternational Uniform Chemical Information Database
LQ Limited Quantities
MARPOL International Convention for the Prevention of Marine Pollution from Ships
n.a. not applicable
n.av. not available
n.c. not checked
n.d.a. no data available
OECD Organisation for Economic Co-operation and Development
org. organic
PBT persistent, bioaccumulative and toxic
PE Polyethylene
PNEC Predicted No Effect Concentration
ppm parts per million
PVC Polyvinylchloride
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning
the Registration, Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical
identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via
REACH-IT.
RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the
International Carriage of Dangerous Goods by Rail)
SVHC Substances of Very High Concern
Tel. Telephone
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
VOC Volatile organic compounds
vPvB very persistent and very bioaccumulative
wwt wet weight
The statements made here should describe the product with regard to the necessary safety precautions - they are
not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.
No responsibility.
These statements were made by:
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