Telefax: +49 (0)711 8399 7480

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Sun Lotion: VW-PM005/ TO-PM003/ PRÜFCREME/ Rezeptur Nr. 396/001/003

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

### 1.1. Product identifier

Sun Lotion: VW-PM005/ TO-PM003/ PRÜFCREME/ Rezeptur Nr. 396/001/003

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

#### Use of the substance/mixture

Test substance

### Uses advised against

Any non-intended use.

### 1.3. Details of the supplier of the safety data sheet

Company name: Thierry GmbH
Street: Motorstrasse 30
Place: D-70499 Stuttgart
Telephone: +49 (0)711 8399 7470

e-mail: info@thierry-gmbh.de

Contact person: Veronika Krieger Telephone: 0711/839974-0

Internet: www.thierry-gmbh.de

Responsible Department: Dr. Gans-Eichler e-mail: info@tge-consult.de

Chemieberatung GmbH Tel.: +49(0)251/394868-69 Raesfeldstr. 22 www.tge-consult.de

D-48149 Münster

**1.4. Emergency telephone** Emergency medical information: Poison Information Center Mainz - Tel: +49

<u>number:</u> (6131) 19240

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

# 2.1. Classification of the substance or mixture

### **Regulation (EC) No. 1272/2008**

Hazard categories:

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

## Regulation (EC) No. 1272/2008

### Pictograms:



### **Hazard statements**

H411 Toxic to aquatic life with long lasting effects.

## **Precautionary statements**

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container to local/regional/national/international regulations.

## Special labelling of certain mixtures

EUH208 Contains 3,7,11,15-tetramethylhexadecane-1,2,3-triol. May produce an allergic reaction.

## 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

according to Regulation (EC) No 1907/2006

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

#### 3.2. Mixtures

### **Hazardous components**

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification according to Regula	tion (EC) No. 1272/2008 [0	CLP]		
64-17-5	ethanol, ethyl alcohol			10 - < 15 %	
	200-578-6	603-002-00-5	01-2119457610-43		
	Flam. Liq. 2, Eye Irrit. 2; H225 H3	19	·		
36861-47-9	(±)-1,7,7-trimethyl-3-[(4-methylphe	enyl)methylene]bicyclo[2.2.	1]heptan-2-one	1 - < 5 %	
	253-242-6				
	Aquatic Acute 1, Aquatic Chronic				
70356-09-1	1-[4-(1,1-dimethylethyl)phenyl]-3-(	1 - < 5 %			
	274-581-6		01-2119967408-25		
	Aquatic Chronic 4; H413				
6197-30-4	octocrilene			1 - < 5 %	
	228-250-8		01-2119457637-27		
	Aquatic Chronic 4; H413	•	•		
74563-64-7	3,7,11,15-tetramethylhexadecane-	-1,2,3-triol		< 1 %	
	277-923-2				
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 4; H315 H319 H317 H413				

Full text of H and EUH statements: see section 16.

#### **Further Information**

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH).

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

### 4.1. Description of first aid measures

### **General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Take off immediately all contaminated clothing.

#### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

### After contact with skin

Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

### After contact with eyes

Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

### After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

#### Suitable extinguishing media

Sand. Foam. Carbon dioxide (CO2). Extinguishing powder. In case of major fire and large quantities: Water spray jet. Water mist.

### Unsuitable extinguishing media

High power water jet

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

Can be released in case of fire: Carbon monoxide, Carbon dioxide (CO2). Nitrogen oxides (NOx)

#### 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Co-ordinate fire-fighting measures to the fire surroundings.

#### **SECTION 6: Accidental release measures**

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

Provide adequate ventilation.

Avoid exposure. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.

Wear personal protection equipment (refer to section 8).

#### 6.2. Environmental precautions

Discharge into the environment must be avoided. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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

### 7.1. Precautions for safe handling

### Advice on safe handling

Provide adequate ventilation.

Avoid exposure - obtain special instructions before use.

Wear suitable protective clothing. (See section 8.)

## Advice on protection against fire and explosion

Usual measures for fire prevention.

## Further information on handling

Avoid contact with skin, eyes and clothes.

General protection and hygiene measures: refer to chapter 8

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

according to Regulation (EC) No 1907/2006

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### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container.

Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

## Advice on storage compatibility

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

### Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity.

Recommended storage temperature: 20°C

Protect against: Light. UV-radiation/sunlight. heat. moisture.

### 7.3. Specific end use(s)

See section 1.

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

# 8.1. Control parameters

### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
56-81-5	Glycerol, mist	-	10		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
13463-67-7	Titanium dioxide, respirable	-	4		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

#### **DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
64-17-5	ethanol, ethyl alcohol			
Worker DNEL,	long-term	inhalation	systemic	950 mg/m³
Worker DNEL,	long-term	dermal	systemic	343 mg/kg bw/day
Worker DNEL,	acute	inhalation	systemic	1900 mg/m³
70356-09-1	1-[4-(1,1-dimethylethyl)phenyl]-3-(4-methoxyphenyl)propan	e-1,3-dione		
Worker DNEL,	long-term	inhalation	systemic	39,38 mg/m³
Worker DNEL,	acute	inhalation	systemic	2520 mg/m³
Worker DNEL, long-term		dermal	systemic	6,49 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	2,25 mg/kg bw/day
Consumer DNI	Consumer DNEL, long-term		systemic	2,25 mg/kg bw/day

### **PNEC values**

CAS No	Substance	
Environmental	compartment	Value
64-17-5	ethanol, ethyl alcohol	
Freshwater		0,96 mg/l

according to Regulation (EC) No 1907/2006

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Marine water		0,79 mg/l		
Freshwater sec	Freshwater sediment			
Micro-organisn	ns in sewage treatment plants (STP)	580 mg/kg		
Soil		0,63 mg/kg		
13463-67-7	titanium dioxide			
Freshwater		0,184 mg/l		
Freshwater (in	ermittent releases)	0,193 mg/l		
Marine water		0,0184 mg/l		
Freshwater sec	diment	1000 mg/kg		
Marine sedime	100 mg/kg			
Micro-organisn	Micro-organisms in sewage treatment plants (STP)			
Soil		100 mg/kg		
70356-09-1	1-[4-(1,1-dimethylethyl)phenyl]-3-(4-methoxyphenyl)propane-1,3-dione			
Freshwater		0.027 mg/l		
Marine water		0.027 mg/l		
Freshwater sec	11,96 mg/kg			
Marine sedime	11,96 mg/kg			
Secondary pois	100 mg/kg			
Micro-organisn	Micro-organisms in sewage treatment plants (STP)			
Soil		2,384 mg/kg		

### 8.2. Exposure controls





# Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

### Protective and hygiene measures

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Take off contaminated clothing and wash it before reuse. Street clothing should be stored separately from work clothing. Contaminated work clothing should not be allowed out of the workplace.

### Eye/face protection

Recommended eye protection articles: Eye glasses DIN EN 166

### Hand protection

Wear suitable gloves.

Suitable material:

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time >= 8 h

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Suitable protective clothing: Protective clothing.

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Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

- -exceeding exposure limit values
- -insufficient ventilation and aerosol or mist formation

Suitable respiratory protective equipment: Combination filtering device (EN 14387) Type A - P2

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

### **Environmental exposure controls**

This material and its container must be disposed of in a safe way.

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

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

Physical state: liquid
Colour: cream
Odour: characteristic

pH-Value: not determined

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Sublimation point:

Softening point:

Pour point:

Plash point:

Sustaining combustion:

Not determined sustaining combustion:

Flammability

Solid: No information available.

Gas: No information available.

**Explosive properties** 

none

Lower explosion limits:

Upper explosion limits:

Ignition temperature:

not determined

not determined

**Auto-ignition temperature** 

Solid: No information available.
Gas: not determined

Decomposition temperature: not determined

Oxidizing properties

none

Vapour pressure: not determined

(at 20 °C)

Vapour pressure: No information available.

(at 50 °C)

Density (at 20 °C): 1,02 g/cm<sup>3</sup>

according to Regulation (EC) No 1907/2006

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Bulk density:

Water solubility:

No information available.

not determined

Solubility in other solvents

not determined

Partition coefficient: not determined
Viscosity / dynamic: 2038 mPa·s

(at 20 °C)

Viscosity / kinematic:

Flow time:

vapour density:

Evaporation rate:

Solvent separation test:

not determined

9.2. Other information

Solid content: not determined

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

#### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

No information available.

### 10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

### 10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

## 10.6. Hazardous decomposition products

Can be released in case of fire: Carbon monoxide, Carbon dioxide (CO2). Nitrogen oxides (NOx)

## **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

### Toxicocinetics, metabolism and distribution

No data available.

### **Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
64-17-5	ethanol, ethyl alcohol	ethanol, ethyl alcohol						
	oral	LD50 mg/kg	>5000	Rat.	ECHA Dossier			
	inhalation (4 h) vapour	LC50 mg/l	124,7	Rat.	ECHA Dossier			
70356-09-1	1-[4-(1,1-dimethylethyl)phenyl]-3-(4-methoxyphenyl)propane-1,3-dione							

according to Regulation (EC) No 1907/2006

Revision date: 26.07.2018         Product code:         Page 8           oral         LD50 mg/kg         > 16000 Rat         ECHA Dossier           6197-30-4         octocrilene         ECHA Dosser         ECHA Dosser           dermal         LD50 mg/kg         > 2000 Rat.         ECHA Dosser           74563-64-7         3,7,11,15-tetramethylhexadecane-1,2,3-triol         ECHA Dosser		Sun Lotion: VW-PM005/ TO-PM003/ PRÜFCREME/ Rezeptur Nr. 396/001/003							
mg/kg   mg/kg	Revision date	e: 26.07.2018			Product code:		Page 8 of 1		
oral         LD50 mg/kg         >5000 Rat.         ECHA Dosser           dermal         LD50 bg/kg         > 2000 Rat.         ECHA Dosser		oral	1 -	> 16000	Rat	ECHA Dossier			
mg/kg	6197-30-4	octocrilene							
mg/kg		oral	1 -	>5000	Rat.	ECHA Dosser			
74563-64-7 3,7,11,15-tetramethylhexadecane-1,2,3-triol		dermal	I	> 2000	Rat.	ECHA Dosser			
	74563-64-7	3,7,11,15-tetramet	hylhexadecane-1	,2,3-triol					

Rat

MSDS external

#### Irritation and corrosivity

oral

Based on available data, the classification criteria are not met.

LD50

mg/kg

### Sensitising effects

Contains 3,7,11,15-tetramethylhexadecane-1,2,3-triol. May produce an allergic reaction.

>5000

### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

Ethanol. (CAS-No.: 64-17-5):

In-vitro mutagenicity: No experimental indications of mutagenicity in-vitro exist.

Reproductive toxicity:
Exposure time: 18 weeks
Species: CD-1 Mouse.
Method: OECD Guideline 416
Result: NOAEL = 20700 mg/kg/day
Developmental toxicity/teratogenicity:

Exposure time: 19d

Species: Sprague-Dawley Rat. Method: OECD Guideline 414

Result: NOAEL = 16000 ppm (maternal toxicity)
Result: NOAEL >= 20000 ppm (teratogenicity)

Literature information: ECHA Dossier

octocrilene (CAS-No.: 6197-30-4):

In-vitro mutagenicity: No experimental indications of mutagenicity in-vitro exist.

Developmental toxicity/teratogenicity:

Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study)

Species: Rat. Exposure time: 20d

Result: NOAEL = 1000 mg/kg(bw)/day Literature information: ECHA Dossier

Ethyl hexyl salicylate (CAS-No.: 118-60-5):

In-vitro mutagenicity: No experimental indications of mutagenicity in-vitro exist.

Developmental toxicity/teratogenicity:

Method: OECD guideline 421 (Reproduction / Developmental Toxicity Screening Test)

Species: Rat.

Exposure time: 7 weeks

Result: NOAEL = 80 mg/kg(bw)/day Literature information: ECHA Dossier

1-[4-(1,1-dimethylethyl)phenyl]-3-(4-methoxyphenyl)propane-1,3-dione (CAS-No.: 70356-09-1):

In vivo mutagenicity/genotoxicity: No experimental indications of in vivo mutagenicity exist.

Method:

Developmental toxicity/teratogenicity:

according to Regulation (EC) No 1907/2006

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Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study)

Species: Rat. Exposure time: 20d

Result: NOAEL = 1000 mg/kg(bw)/day Literature information: ECHA Dossier

### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

Ethanol. (CAS-No.: 64-17-5): Subchronic oral toxicity Exposure time: 90d

Species: Sprague-Dawley Rat.
Method: OECD Guideline 408
Result: NOAEL = 1280 mg/kg
Literature information: ECHA Dossier

octocrilene (CAS-No.: 6197-30-4):

Subchronic oral toxicity:

Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Species: Rat. Exposure time: 90d

Result: NOAEL = 175 mg/kg(bw)/day Literature information: ECHA Dossier

1-[4-(1,1-dimethylethyl)phenyl]-3-(4-methoxyphenyl)propane-1,3-dione (CAS-No.: 70356-09-1):

Subchronic oral toxicity

Developmental toxicity/teratogenicity:

Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Species: Rat. Exposure time: 90d

Result: NOAEL = 450 mg/kg(bw)/day Literature information: ECHA Dossier

### **Aspiration hazard**

Based on available data, the classification criteria are not met.

# Specific effects in experiment on an animal

No data available.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
64-17-5	ethanol, ethyl alcohol						
	Acute fish toxicity	LC50 mg/l	14200	96 h	Pimephales promelas	ECHA Dossier	
	Acute algae toxicity	ErC50	275 mg/l	72 h	Chlorella vulgaris	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l	5012	48 h	Ceriodaphnia dubia	ECHA Dossier	
	Crustacea toxicity	NOEC	9,6 mg/l	9 d	daphnia magna	ECHA Dossier	
70356-09-1	1-[4-(1,1-dimethylethyl)ph	enyl]-3-(4-m	ethoxypheny	/l)propar	ne-1,3-dione		
	Acute fish toxicity	LC50 (LL50) mg/	>100 I	96 h	Cyprinus carpio	ECHA Dossier	

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	Acute algae toxicity	ErC50 (LL50) mg/l	> 100	l . –	Scenedesmus capricornutum	ECHA Dossier	
	Acute crustacea toxicity	EC50 (LL50) mg/l	>100	48 h	Daphnia magna	ECHA Dossier	
6197-30-4	octocrilene						
	Acute fish toxicity	LC50 mg/l	(> 0,5)		Brachydanio rerio (zebra-fish)	ECHA Dossier	
	Acute algae toxicity	ErC50 mg/l	> 220		Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l	(> 0,023)	48 h	Daphnia magna	ECHA Dossier	
74563-64-7	3,7,11,15-tetramethylhexa	decane-1,2,3	-triol				
	Acute fish toxicity	LC50 mg/l	>1000		Oncorhynchus mykiss (Rainbow trout)	MSDS external	
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnia magna	MSDS external	
	Acute bacteria toxicity	(>1000 mg	j/l)	3 h	Activated sludge	MSDS external	

# 12.2. Persistence and degradability

CAS No	Chemical name							
	Method	Value	d	Source				
	Evaluation							
64-17-5	ethanol, ethyl alcohol							
	other guideline	84%	20	ECHA Dossier				
	Product is biodegradable.							
70356-09-1	1-[4-(1,1-dimethylethyl)phenyl]-3-(4-methoxyphenyl)propane-1,	3-dione						
	ISO 11734	0 %	79	ECHA Dossier				
	Not easily bio-degradable (according to OECD-criteria).							
6197-30-4	octocrilene							
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	0%	28	ECHA Dossier				
	Not easily bio-degradable (according to OECD-criteria).							
74563-64-7	3,7,11,15-tetramethylhexadecane-1,2,3-triol							
	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	60-70%	28	MSDS external				
	Readily biodegradable (according to OECD criteria).		·					

# 12.3. Bioaccumulative potential

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol, ethyl alcohol	-0,31
70356-09-1	1-[4-(1,1-dimethylethyl)phenyl]-3-(4-methoxyphenyl)propane-1,3-dione	6,1
6197-30-4	octocrilene	6,1
74563-64-7	3,7,11,15-tetramethylhexadecane-1,2,3-triol	4,7

# BCF

CAS No	Chemical name	BCF	Species	Source
6197-30-4	octocrilene	915	Brachydanio rerio (zebra-fish)	ECHA
74563-64-7	3,7,11,15-tetramethylhexadecane-1,2,3 -triol	2500	calculated.	MSDS external

# 12.4. Mobility in soil

No data available.

according to Regulation (EC) No 1907/2006

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### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Other adverse effects

No data available.

#### **Further information**

Do not allow to enter into surface water or drains.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

### Advice on disposal

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### Waste disposal number of waste from residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

### Waste disposal number of used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

#### Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately

collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

nazardous substances, nazardo

### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

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

### Land transport (ADR/RID)

**14.1. UN number:** UN 3082

**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

 $((\pm)-1,7,7-trimethyl-3-$ 

[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one)

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9



Classification code:

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Special Provisions: 274 335 375 601

Limited quantity: 5 L
Excepted quantity: E1
Transport category: 3
Hazard No: 90
Tunnel restriction code: -

Inland waterways transport (ADN)

**14.1. UN number:** UN 3082

according to Regulation (EC) No 1907/2006

# Sun Lotion: VW-PM005/ TO-PM003/ PRÜFCREME/ Rezeptur Nr. 396/001/003

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14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

 $((\pm)-1,7,7-trimethyl-3-$ 

[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one)

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9



Classification code: M6

Special Provisions: 274 335 375 601

Limited quantity: 5 L Excepted quantity: E1

Marine transport (IMDG)

<u>14.1. UN number:</u> UN 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

((±)-1,7,7-trimethyl-3-

[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one)

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9



Marine pollutant: YES

Special Provisions: 274, 335, 969

Limited quantity: 5 L
Excepted quantity: E1
EmS: F-A, S-F

Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

 $((\pm)-1,7,7-trimethyl-3-$ 

[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one)

14.3. Transport hazard class(es): 9

14.4. Packing group:
Hazard label: 9



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A97 Å158 Å197

30 kg G

Y964

Excepted quantity:

E1

IATA-packing instructions - Passenger: 964
IATA-max. quantity - Passenger: 450 L
IATA-packing instructions - Cargo: 964
IATA-max. quantity - Cargo: 450 L

14.5. Environmental hazards

according to Regulation (EC) No 1907/2006

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ENVIRONMENTALLY HAZARDOUS: yes

¥2>

Danger releasing substance: (±)-1,7,7-trimethyl-3-

[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one

### 14.6. Special precautions for user

refer to chapter 6-8

# 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not relevant

### **SECTION 15: Regulatory information**

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

## EU regulatory information

2010/75/EU (VOC): No information available. 2004/42/EC (VOC): No information available.

Information according to 2012/18/EU

(SEVESO III):

E2 Hazardous to the Aquatic Environment

#### Additional information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

REACH 1907/2006 Appendix XVII: 3

### **National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile

work protection guideline' (94/33/EC).

Water contaminating class (D): 2 - clearly water contaminating

# 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

# **SECTION 16: Other information**

### Changes

Rev. 1.0; 25.04.2016, Initial release

Rev. 2,0; 29.01.2018, Changes in chapter: 2, 3, 5, 7, 8, 13, 14, 15, 16.

Rev. 3,0; 26.07.2018, Changes in chapter: 2, 3.

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

CAS Chemical Abstracts Service DNEL: Derived No Effect Level

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

according to Regulation (EC) No 1907/2006

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NOAEC: No observed adverse effect level

NTP: National Toxicology Program

N/A: not applicable

OSHA: Occupational Safety and Health Administration

PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de

fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )

SARA: Superfund Amendments and Reauthorization Act

SVHC: substance of very high concern TRGS Technische Regeln fuerGefahrstoffe TSCA: Toxic Substances Control Act VOC: Volatile Organic Compounds

VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe

WGK: Wassergefaehrdungsklasse

### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Aquatic Chronic 2; H411	Calculation method

Aquatic Chronic 2; H411	Calculation method	
Relevant H and EUH	statements (number and full text)	
H225	Highly flammable liquid and vapour.	
H315	Causes skin irritation.	

H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H411 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

EUH208 Contains 3,7,11,15-tetramethylhexadecane-1,2,3-triol. May produce an allergic reaction.

### **Further Information**

Classification according EC regulation 1272/2008 (CLP): - Classification procedure:

Health hazards: Calculation method.
Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)