

# SAFETY DATA SHEET

according to regulation (EU) No 2015/830

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

1.1. Product identifier Trade name or designation	Scan spray luer blue 50 ml
of the mixture	
Registration number	-
Synonyms	None.
SDS number	5344
Product code	500516 / 500517
Issue date	26-October-2015
Version number	1,0
Revision date	26-October-2015
Product use	Professional use
1.2. Relevant identified uses of t	he substance or mixture and uses advised against
Identified uses	For medical use Matting agent for the optical impression in dental CAD / CAM process
Uses advised against	None known.
1.3. Details of the supplier of the	e safety data sheet
Company name	Dentaco GmbH & Co.KG
Address	Max-Keith-Str. 46
	45136 Essen, Germany
Telephone number	+ 49 ( 0) 201/ 8098290
Fax	+ 49 (0) 201/ 80982999
Homepage	www.dentaco.de ; info@dentaco.de
E-mail	HSE@rle.de
1.4 Emergency telephone number	+ 49 ( 0) 201/ 8098290 (Mo Fr. 09:00 - 17:00)

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

## Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards Aerosols	Category 3	H229 - Pressurized container: May burst if heated.			
Environmental hazards Hazardous to the aqua long-term aquatic haza		H412 - Harmful to aquatic life with long lasting effects.			
2.2. Label elements					
Label according to Regulation	n (EC) No. 1272/2008 as amended				
Hazard pictograms	None.				
Signal word	Warning				
Hazard statements					
H229 H412	Pressurized container: May burst if heated. Harmful to aquatic life with long lasting effects.				
Precautionary statements					
Prevention					
P210 P251 P260 P262	Keep away from heat, hot surfaces, sparks, open flames a Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.	nd other ignition sources. No smoking.			
Response					

P301 + P330 + P331 P310	IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.
Storage	
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	None.
Supplemental label information	10 % by mass of the contents are flammable. EUH208 - Contains Lemon, Ext May produce an allergic reaction.
2.3. Other hazards	Based on the test data,the product is not classified as a flammable aerosol. The mixture contains no substance that fulfils the criteria of a PBT- or vPvB substance.

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

3.2. Mixtures

**General information** 

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
1,1,1,2,3,3,3-Heptafluoropr	opane	40 - < 60	431-89-0 207-079-2	01-2119485489-18-XXXX	-	
Classification:	ress. Gas	;H280				
Ethanol		1 - 10	64-17-5 200-578-6	01-2119457610-43-XXXX	603-002-00-5	Eye Irrit. 2 H319,C >= 50.0%
Classification: F	lam. Liq. 2	2;H225, Eye I	rrit. 2;H319			
Talc (Mg3H2(SiO3)4)		2 - 4	14807-96-6 238-877-9	-	-	
Classification:	Acute Tox.	4;H332, STC	DT SE 3;H335			
Naphtha (petroleum), hydro light	otreated	0,1 - < 1	64742-49-0 265-151-9	-	649-328-00-1	Note P
Classification:	Asp. Tox. 1	;H304, Muta.	1B;H340, Carc. 1	B;H350		
Lemon, Ext.		0,1 - < 0,5	84929-31-7 284-515-8	-	-	
			Tox. 1;H304, Skin Chronic 1;H410	Irrit. 2;H315, Skin Sens. 1;H31	7, Aquatic	

List of abbreviations and symbols that may be used above: Note: Regulation No. 1272/2008 - Annex VI

Composition comments

The full text for all H-statements is displayed in section 16.

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

General information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
4.1. Description of first aid meas	sures
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	In the unlikely event of swallowing contact a physician or poison control centre. Rinse mouth.
4.2. Most important symptoms and effects, both acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. Prolonged exposure may cause chronic effects.
4.3. Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

# **SECTION 5: Firefighting measures**

General fire hazards

Not available.

5.1. Extinguishing media Suitable extinguishing media	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	Contents under pressure. Pressurised container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Special fire fighting procedures	Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

# **SECTION 6: Accidental release measures**

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

For non-emergency personnel	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.
6.3. Methods and material for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.
6.4. Reference to other sections	For personal protection, see section 8. For waste disposal, see section 13 of the SDS.

# **SECTION 7: Handling and storage**

7.1. Precautions for safe handling	Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid contact with eyes. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS). TRGS 510 storage class: 2B
7.3. Specific end use(s)	For medical use Matting agent for the optical impression in dental CAD / CAM process

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

### **Occupational exposure limits**

Germany Components	Туре	Value	
· · · · · · · · · · · · · · · · · · ·			
Ethanol (CAS 64-17-5)	STEL	1920 mg/m3	
Comments:	15 minutes average value		
		1000 ppm	
Comments:	15 minutes average value		

in the Work Area (DFC Components	Туре		Value	
Ethanol (CAS 64-17-5)	TWA		960 mg/m3	
			500 ppm	
Germany - TRGS 900				
Material	Туре		Value	
Scan spray luer blue 50	Oml AGW		1500 mg/m3	
Comments:	Workplace exposure limit according to Sect. 2.9)	RCP method for	r the hydrocarbon fra	action (TRGS 900,
	STEL		3000 mg/m3	
Comments:	Workplace exposure limit according to Sect. 2.9)	RCP method for	-	action (TRGS 900,
Components	Туре		Value	
Ethanol (CAS 64-17-5)			1920 mg/m3	
Comments:	15 minutes average value		1000	
Comments:	15 minutos avorago valuo		1000 ppm	
	15 minutes average value Limit Values in the Ambient Air at the	Workplace		
Components	Туре	Tronxplace	Value	Form
Ethanol (CAS 64-17-5)	AGW		960 mg/m3	
(	-		500 ppm	
Silicon dioxide	AGW		4 mg/m3	Inhalable fraction.
Talc (Mg3H2(SiO3)4) (	CAS AGW		10 mg/m3	Inhalable fraction.
14807-96-6)			- 3	
			1,25 mg/m3	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	AGW		10 mg/m3	Inhalable fraction.
			1,25 mg/m3	Respirable fraction.
ogical limit values	No biological exposure limits not	ted for the ingred	ient(s).	
ommended monitoring	g Follow standard monitoring proc	edures.		
ved no-effect level (DI	NEL)			
Components	Туре	Route	Value	Form
Ethanol (CAS 64-17-5)	Consumer	Dermal	206 mg/kg/day	-
Comments:	Long term exposure systemic effects			
		Inhalation	950 mg/m3	-
Comments:	Short term exposure - local effects			
		Inhalation	114 mg/m3	
Comments:	Long term exposure systemic effects			
<b>.</b> .		Oral	87 mg/kg/day	-
Comments:	Long term exposure systemic effects		o 4 o	
0	Professional	Dermal	343 mg/kg/day	-
Comments:	Long term exposure systemic effects	lue la - l - 1'		
Commonto	Long torm ovposure avetemic effecte	Inhalation	950 mg/m3	-
Comments:	Long term exposure systemic effects	Inholation	1000 ma/m2	
Comments:	Short term exposure - local effects	Inhalation	1900 mg/m3	
Silicon dioxide	Professional	Inhalation	4 mg/m3	-
Comments:	Long term exposure systemic effects	maialion	- mg/mo	
Titanium dioxide (CAS		Oral	700 mg/kg/day	-
Comments:	Long term exposure systemic effects	0.4		
	Industry	Inhalation	10 mg/m3	-
Comments:	Long term Local effects		5	
	-			
	Professional	Inhalation	10 mg/m3	-

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Components Ethanol (CAS 64-17-5)		Туре	Route	Value	Form
		Not applicable	Oral	0,72 mg/g	
		Not applicable	Sediment	0,0036 mg/g	Fresh water
			Soil	0,00063 mg/g	
			STP	580 mg/l	
			Water	2,75 mg/l	Intermittent release
			Water	0,96 mg/l	Fresh water
			Water	0,79 mg/l	Seawater
Titanium dioxide (CAS 13463	-67-7)	Not applicable	Floor	100 mg/kg	
·	,		Oral	1667 mg/kg	Feed (oral)
			Sediment	1000 mg/kg	Fresh water
			Sediment	100 mg/kg	Seawater
			STP	100 mg/l	
			Water	1 mg/l	Seawater
			Water	0,61 mg/l	Intermittent release
			Water	0,127 mg/l	Fresh water
. Exposure controls					
propriate engineering ntrols	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation should be matched to conditions. If applicable, use process enclosures, local exhaust very or other engineering controls to maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels to an acceptable level eyewash station.			res, local exhaust ventilation nmended exposure limits. If	
lividual protection measures,	such as po	ersonal protective equ	lipment		
General information	Use personal protective equipment as required. Personal protection equipment should be c according to the CEN standards and in discussion with the supplier of the personal protective equipment.				
Eye/face protection	Wear safe	ety glasses with side sh	ields (or goggle	s).	
Skin protection					
- Hand protection	For prolo	nged or repeated skin o	ontact use suita	ble protective glove	S.
- Other	Wear suit	able protective clothing	l.		
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.				
Thermal hazards	Wear app	propriate thermal protect	tive clothing, wh	en necessary.	
giene measures	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.				
vironmental exposure	•	propriate managerial or			nmental releases.

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

controls

# 9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Aerosol.
Form	Aerosol
Colour	Blue
Odour	Odourless.
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	78 °C (172,4 °F) approximately
Flash point	Not applicable, since aerosol
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.

Flammability limit - upper

(%)

Not available.

Vapour pressure	4000 hPa
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.
9.2. Other information	
Heat of combustion	14 kJ/g
VOC (EU)	Not applicable
SECTION 10: Stability an	nd reactivity

# 10.1. ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.10.2. Chemical stabilityMaterial is stable under normal conditions.10.3. Possibility of hazardous<br/>reactionsNo dangerous reaction known under conditions of normal use.10.4. Conditions to avoidContact with incompatible materials.10.5. Incompatible materialsStrong oxidising agents.10.6. Hazardous<br/>decomposition productsCarbon monoxide, carbon dioxide and other hydrocarbon fragments.

# **SECTION 11: Toxicological information**

General information	Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of ex	kposure
Inhalation	Prolonged inhalation may be harmful.
Skin contact	May cause an allergic skin reaction.
Eye contact	Based on available data, the classification criteria are not met.
Ingestion	May cause discomfort if swallowed.
Symptoms	Not available.

# 11.1. Information on toxicological effects

Product	Species	Test results
Scan spray luer blue 50 ml		
<u>Acute</u>		
Inhalation		
Dust		
		> 5 mg/l, 4 hours (calcd. ATE)
Components	Species	Test results
Talc (Mg3H2(SiO3)4) (CAS 14	807-96-6)	
Acute		
Inhalation		
Liquid		
		11 mg/l, 4 hours (acc. CLP 3.1.2)
Dust		
		1,5 mg/l, 4 hours (acc.CLP 3.1.2)
Skin corrosion/irritation	May cause an allergic skin reaction.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary	irritation.
Respiratory sensitisation	Based on available data, the classification crite	eria are not met.
Skin sensitisation	May cause an allergic skin reaction.	

Germ cell mutagenicity	CAS 64742-49-0: Note P is applicable (contains less than 0,1 % w/w benzene (EINECS No 200-753-7), therefore no classification as mutagen
Carcinogenicity	CAS 64742-49-0: Note P is applicable (contains less than 0,1 % w/w benzene (EINECS No 200-753-7), therefore no classification as carcinogen
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Mixture versus substance information	No information available.
Other information	Not available.

# **SECTION 12: Ecological information**

12.1. Toxicity	Harmful to aquatic life with long lasting effects.
12.2. Persistence and degradability	No data is available on the degradability of this product.
12.3. Bioaccumulative potential	No data available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	The mixture contains no substance that fulfils the criteria of a PBT- or vPvB substance.
12.6. Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

# **SECTION 13: Disposal considerations**

13.1. Waste treatment methods	
Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
	16 05 04 15 01 10
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

# **SECTION 14: Transport information**

ADR

14.1. UN number 14.2. UN proper shipping	UN3296 HEPTAFLUOROPROPANE (REFRIGERANT GAS R 227)
name	
14.3. Transport hazard class	(es)
Class	2.2
Subsidiary risk	-
Label(s)	2.2
Hazard No. (ADR)	20
Tunnel restriction code	C/E
14.4. Packing group	Not applicable.
14.5. Environmental hazards	No.
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
for user	
Special provisions	Not available.

Classification code	2A
14.1. UN number	UN3296
14.1. UN proper shipping	Heptafluoropropane
name	rieplandoloploparie
14.3. Transport hazard class	(os)
•	2.2
Class Subsidierry risk	2.2
Subsidiary risk 14.4. Packing group	- Nat applicable
	Not applicable. 200
Packaging instructions	200
Packaging instructions cargo only	200
14.5. Environmental hazards	No
ERG Code	2L
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
for user	
Other information	
Passenger and cargo	Allowed.
aircraft	
Cargo aircraft only	Allowed.
Maximum net quantity	75 kg
packaging - Passenger	
and cargo aircraft	
Maximum net quantity	150 kg
packaging cargo only	
Maximum net quantity	Forbidden
packaging - Limited	
quantity	
Special provisions	Not available.
IMDG	
14.1. UN number	UN3296
14.2. UN proper shipping	HEPTAFLUOROPROPANE (REFRIGERANT GAS R 227)
name	(
14.3. Transport hazard class	
Class	2.2
Subsidiary risk	-
14.4. Packing group	Not applicable.
14.5. Environmental hazards	
Marine pollutant	No.
EmS	F-C, S-V
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
for user	Net evaluable
Special provisions	Not available. Not available.
14.7. Transport in bulk according to Annex II of	ויטן מימוומטול.
MARPOL 73/78 and the IBC	
Code	

# **SECTION 15: Regulatory information**

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

EU regulations

Not applicable.

**Restrictions on use** 

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

Naphtha (petroleum), hydrotreated lig	ght (CAS 64742-49-0)
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Other regulations	This Safety Data Sheet complies with the requirements of Regulation (EC) No 2015/830.
Other EU regulations	1,1,1,2,3,3,3-Heptafluoropropane (R-227ea), CAS No : 431-89-0 is exempted from the prohibition of mixtures containing fluorinated greenhouse gases in accordance with REGULATION (EU) No 517/2014 as it is used for medical applications

## Directive 94/33/EC on the protection of young people at work, as amended

Naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

VOC (EU):	Not applicable
Directive 2012/18/EU on major Not applicable	or accident hazards involving dangerous substances
National regulations	Follow national regulation for work with chemical agents.
Water hazard class VwVwS (According to Annex IV)	WGK2
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.
SECTION 16: Other information	

## **SECTION 16: Other information**

## List of abbreviations

AC: Article category. acc., acc.to: according, according to. ACGIH: American Conference of Governmental Industrial Hygienists. AFNOR: French Institute for Standards (Association Française de Normalisation). ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures). ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des merchandises dangereuses par route). AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert - Germany). AICS: Australian Inventory of Chemical Substances. ANSI: American National Standards Institute. AOEL: Acceptable Operator Exposure Level. AOX: adsorbable organic halogen compounds. approx .: approximately. ASTM: ASTM International. ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP). BAM: Federal Institute for Materials Research and Testing, Germany (Bundesanstalt für Materialforschung und -prüfung). Maximum permissible concentration of biological working substances (BAT: Biologische Arbeitsstofftoleranzwerte). BAuA: Federal Institute for Occupational Health and Safety, Germany (Bundesanstalt für Arbeitsschutz und Arbeitsmedizin). BCF: Bio-concentration factor. BET: Brunauer-Emmett-Teller. BLV: Biological Limit Value. BLV: Biological Limit Value (BGW: Biologischer Grenzwert, Austria). BMGV: Biological Monitoring Guidance Value (EH40,UK). BSI: British Standards Institution. BS: British Standard. BOD5: Biochemical oxygen demand within 5 days. BOD: Biochemical oxygen demand. bw: Body weight. calcd .: calculated. CAS: Chemical Abstract Service. CEN: European Committee for Standardization (Comité Européen de Normalisation). CESIO: European Committee on Organic Surfactants and their Intermediates (Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques). ChemRRV: Ordinance on the risk reduction related to chemical products (ChemRRV: Chemikalien-Risikoreduktions-verordnung, Switzerland). CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures. CMR: Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction. CNS: Central Nervous System. CNT: Carbon nanotubes. COD: Chemical Oxygen Demand. CSA: Chemical Safety Assessment. CSR: Chemical Safety Report. DETEC: Swiss Federal Department of the Environment, Transport, Energy and Communications. DIN: German Standards Institute / German industrial norm (Deutsches Institut für Normung / Deutsche Industrienorm). DMEL: Derived Minimum Effect Level. DNEL: Derived No Effect Level. DOC: Dissolved organic carbon. DPD: Directive 1999-45-EC / Dangerous Preparations Directive. DSD: Directive 67/548-EC / Dangerous Substances Directive.

DSL: Canada, Domestic Substances List.

DU: Downstream User. dw: dry weight. e.g.: For example, for instance. EBW: Exposure Based Waiving. EC: European Community. EC50: Effective Concentration 50%. ECHA: European Chemical Agency. EINECS: European Inventory of Existing Commercial Chemical Substances. ELINCS: European List of Notified Chemical Substances. EN: European norm. ENCS: Japan, Inventory of Existing and New Chemical Substances. EPA: United States Environmental Protection Agency. ERC: Environmental release category. ES: Exposure scenario. EUSES: European Union System for the Evaluation of Substances. EWC/EWL: European Waste Catalogue. GCL: General concentration limit. gen.: general. GHS: Globally Harmonized System of Classification and Labeling of Chemicals. GLP: Good Laboratory Practice. GW/VL: Occupational exposure limit value. GW-kw: Occupational exposure limit value - short term. GW-M/VL-M: Occupational exposure limit value - "Ceiling". GWP: Global Warming Potential. HPV: High Production Volume Chemicals. HEPA: High Efficiency Particulate Air. IARC: International Agency for Research on Cancer. IATA: International Air Transport Association. IBC: Intermediate Bulk Container. IBC Code: International Bulk Chemical (Code) (International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk). ICAO: International Civil Aviation Organization. IC50: Inhibition Concentration 50%. IECSC: Inventory of Existing Chemical Substances in China. IMDG Code: International Maritime Dangerous Goods Code. IMO: International Maritime Organization. incl.: including, inclusive. ISO: International Standards Organization. IUCLID: International Uniform Chemical Information Database. IUPAC: International Union for Pure Applied Chemistry. KECI: Korea Existing Chemicals Inventory. LCA: Life Cycle Assessment. LC: Lethal Concentration. LC50: Lethal Concentration 50%. LCLo: Lowest published lethal concentration. LD50: Lethal Dose 50%. LEV: Local exhaust ventilation. LOAEL: Lowest observed adverse effect level. LOEC: Lowest observable effect concentration. LOEL: Lowest observable effect level. LPV: Low Production Volume Chemicals. LQ: Limited Quantities. Air Quality Control Regulation (LRV: Luftreinhalteverordnung, Switzerland). TLV-STEL: Threshold limit value - Short-term exposure limit / Technical reference concentration short-time value (TRK-Kzw = Technische Richtkonzentration - Kurzzeitwert). Maximum allowable workplace concentration - instantaneous value (MAK-Mow: Maximale Arbeitsplatzkonzentration – Momentanwert, Austria) Maximum allowable workplace concentration - daily mean value / Technical standard concentration - daily mean value (MAK-Tmw, TRK-Tmw : Maximale Arbeitsplatzkonzentration -Tagesmittelwert / TRK-Tmw = Technische Richtkonzentration – Tagesmittelwert, Austria). MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG). MARPOL: International Convention for the Prevention of Pollution From Ships. MTD: Maximum tolerated dose. MWCNT: Multi-walled carbon nanotubes. n.a.: not applicable. N/A: Not available. n.d.: not determined. NLP: No Longer Polymers.

NDSL: Canada, Non-Domestic Substances List. NF: French Norm (See AFNOR). NFPA: National Fire Protection Association. NIOSH: National Institute for Occupational Safety & Health. NOAEC: No Observed Adverse Effect Concentration. NOAEL: No observed adverse effect level. NOEC: No observed effect concentration. NOEL: No observed effect level. NTP: National Toxicology Program. NZIoC: New Zealand Inventory of Chemicals. ODP: Ozone Depletion Potential. OECD: Organization for Economic Cooperation and Development. OEL: Occupational Exposure Limit. org.: organic. OSHA: Occupational Safety & Health Administration. PAH: Polycyclic Aromatic Hydrocarbons. PBT: Persistent, bioaccumulative, toxic. PC: Product category. PE: Polyethylene. PEC: Predicted Environmental Concentration. PEL: Permissible Exposure Limit. PIC: Prior Informed Consent. PICCS: Philippines Inventory of Commercial Chemical Substances. PNEC: Predicted No Effect Concentration. POCP: Photochemical ozone creation potential (Photochemisches Ozonbildungspotenzial). POP: Persistent Organic Pollutant. PPORD: Product and Process Oriented Research and Development. PPE: Personal Protective Equipment. PROC: Process category. RA: Risk Assessment. RAR: Risk Assessment Report. RCRA: Resource Conservation Recovery Act. REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals). RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer). RMM: Risk Management Measure. RTECS: Registry of Toxic Effects of Chemical Substances. QSAR: Quantitative Structure Activity Relation. SARA: Superfund Amendments and Reauthorization Act. SADT: Self-Accelerating Decomposition Temperature. SCL: Specific concentration limit. SEA: socio economic analysis. STEL: Short-term Exposure Limit. STP: Sewage treatment plant. SU: Sector of use. SVHC: Substance of Very High Concern. SWCNT: single-walled carbon nanotubes. ThOD: Theoretical oxygen demand. TOC: Total Organic Carbon. TLV: Threshold Limit Value. TRA: Targeted Risk Assessment. TRGS: Technical Rules for Hazardous Substances (German Standard) TSCA: Toxic Substance Control Act. TWA: Time Weighted Average. UC: Use category. UDS: Use descriptor system. UEC: Use and exposure categories. UN: United Nations. UN RTDG: United Nations Recommendations on the Transport of Dangerous Goods. UVCB: Unknown or Variable Composition, Complex Reaction Products, and Biological Materials. Regulation on combustible liquids (VbF: Verordnung über brennbare Flüssigkeiten, Austria). Regulation of the Austria Minister for Labor and Social Affairs regarding health surveillance at the workplace (VGÜ = Verordnung des Bundesministers für Arbeit und Soziales über die Gesundheitsüberwachung am Arbeitsplatz). VOC: Volatile organic compounds. vPvB: very Persistent, very Bioaccumulative. VwVwS : Administrative Regulation water-polluting substances (German Regulation).

	<ul> <li>WEL-TWA: Workplace Exposure Limit-Long term exposure limit (8-hour TWA(=time weighted average)reference period).</li> <li>WEL-STEL: Workplace Exposure Limit-Short term exposure limit (15-minute reference period).</li> <li>WGK: Water hazard class in accordance with VwVwS (German regulation)</li> <li>WGK1:Slightly hazardous for water</li> <li>WGK2: Water endangering.</li> <li>WGK3: Severe hazard to waters</li> <li>WoE: Weight of evidence.</li> <li>WHMIS: Workplace Hazardous Materials Information System.</li> <li>WHO: World Health Organization.</li> <li>wwt: wet weight.</li> </ul>
References	Not available.
Information on evaluation method leading to the classification of mixture	Based on the test data, the product is not classified as a flammable aerosol. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any H-statements not written out in full under Sections 2 to 15	<ul> <li>H225 Highly flammable liquid and vapour.</li> <li>H226 Flammable liquid and vapour.</li> <li>H280 Contains gas under pressure; may explode if heated.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H340 May cause genetic defects.</li> <li>H350 May cause cancer.</li> <li>H400 Very toxic to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> </ul>
Revision information	None.
Training information	Follow training instructions when handling this material.
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Disclaimer	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 processing the information on this safety data sheet

is not necessarily valid for the new made-up material.