

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

1.1. Product identifier	
Trade name or designation of the mixture	Scan spray lab
Registration number	-
Synonyms	502 502
SDS number	5107
Product code	502 502
Issue date	25-July-2014
Version number	2,0
Revision date	26-October-2015
Supersedes date	25-July-2014
Product use	Professional use
1.2. Relevant identified uses of t	he substance or mixture and uses advised against
Identified uses	Matting spray for CAD/CAM applications, extraoral use
Uses advised against	Intraoral use
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

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms

	<u>E</u> <u>3</u>
Signal word	Danger
Hazard statements	
H222 H229	Extremely flammable aerosol. Pressurized container: May burst if heated.
Precautionary statements	
Prevention	
P210 P211 P251 P260 P262	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. 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.
Response	
P301 + P330 + P331 P310	IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

Material name: Scan spray lab

Storage	
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	None.
Supplemental label information	For professional use only. Keep out of the reach of children.
2.3. Other hazards	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
Isobutane	45 - < 55	5 75-28-5 200-857-2	-	601-004-00-0	Note U, Note C
Classification:	Flam. Gas 1;H220, Pr	ess. 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:	Flam. Liq. 2;H225, Ey	e Irrit. 2;H319			
Talc (Mg3H2(SiO3)4)	1 - < 5	14807-96-6 238-877-9	-	-	
Classification:	Acute Tox. 4;H332, S	TOT SE 3;H335			
Butane	1 - < 3	106-97-8 203-448-7	-	601-004-00-0	Note U, Note C
Classification:	Flam. Gas 1;H220, Pr	ess. Gas;H280			
Propane	1 - < 3	74-98-6 200-827-9	-	601-003-00-5	Note U
Classification:	Flam. Gas 1;H220, Pr	ess. Gas;H280			
Naphtha (petroleum), hyd light	rotreated 0,1 - < 1	64742-49-0 265-151-9	-	649-328-00-1	Note P
Classification:	Asp. Tox. 1;H304, Mut	ta. 1B;H340, Carc. 1	B;H350		

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

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

SECTION 4: First aid measures

General information	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	If symptoms develop move victim to fresh air. Get medical attention if symptoms persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	In the unlikely event of swallowing contact a physician or poison control centre.
4.2. Most important symptoms and effects, both acute and delayed	Direct contact with eyes may cause temporary irritation.
4.3. Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
SECTION 5: Firefighting m	neasures

General fire hazards	Extremely flammable aerosol.	
5.1. Extinguishing media		
Suitable extinguishing media	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).	
Meterial name: Seen aprovide		

Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire. media

5.2. Special hazards arising from the substance or mixture

Contents under pressure. Pressurised container may explode when exposed to heat or flame.

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 discharge into drains, water courses or onto the ground.
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. Use water spray to reduce vapours or divert vapour cloud drift. 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 prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any	Level 1 Aerosol.
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)	Matting spray for CAD/CAM applications, extraoral use

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Germany	_		
Components	Туре	Value	
Butane (CAS 106-97-8)	STEL	9600 mg/m3	
		4000 ppm	
Ethanol (CAS 64-17-5)	STEL	1920 mg/m3	
Comments:	15 minutes average value		
		1000 ppm	
Comments:	15 minutes average value		
Isobutane (CAS 75-28-5) STEL	9600 mg/m3	
		4000 ppm	
Propane (CAS 74-98-6)	STEL	7200 mg/m3	

Components		Туре	Value
			4000 ppm
Germany. DFG MAK Lis in the Work Area (DFG)	t (advisory OELs). (Commiss	ion for the Investigation of Health Hazards of Chemical Compound
Components		Туре	Value
Butane (CAS 106-97-8)		TWA	2400 mg/m3
, , , , , , , , , , , , , , , , , , ,			1000 ppm
Ethanol (CAS 64-17-5)		TWA	960 mg/m3
			500 ppm
Isobutane (CAS 75-28-5)		TWA	2400 mg/m3
· · · · ·			1000 ppm
Propane (CAS 74-98-6)		TWA	1800 mg/m3
			1000 ppm
Germany - TRGS 900			
Material		Туре	Value
Scan spray lab		AGW	1500 mg/m3
Comments:	Workplace exposure Sect. 2.9)	e limit acc	ording to RCP method for the hydrocarbon fraction (TRGS 900,
	00000 2007	STEL	3000 mg/m3
Comments:	Workplace exposure Sect. 2.9)	e limit acc	cording to RCP method for the hydrocarbon fraction (TRGS 900,
Components	,	Туре	Value
Butane (CAS 106-97-8)		STEL	9600 mg/m3
Comments:	15 minutes average	value	
			4000 ppm
Comments:	15 minutes average		
Ethanol (CAS 64-17-5)	<i>i</i> =	STEL	1920 mg/m3
Comments:	15 minutes average	value	1000 ppm
Comments:	15 minutes average	میارد	1000 ppm
Isobutane (CAS 75-28-5)	-	STEL	9600 mg/m3
Comments:	15 minutes average	-	
	i i i i i i i i i i i i i i i i i i i		4000 ppm
Comments:	15 minutes average	value	
Propane (CAS 74-98-6)		STEL	7200 mg/m3
Comments:	15 minutes average	value	
			4000 ppm
Comments:	15 minutes average		· · · · · · · ·
Germany. TRGS 900, Lin Components	mit Values in the Ar	mbient Ai Type	ir at the Workplace Value Form
Butane (CAS 106-97-8)		AGW	2400 mg/m3
			1000 ppm
Ethanol (CAS 64-17-5)		AGW	960 mg/m3
		1000	500 ppm
leobutane (CAS 75 00 E)		AGW	••
Isobutane (CAS 75-28-5)		AGW	2400 mg/m3
$\mathbf{P}_{\mathbf{r}}$			1000 ppm
Propane (CAS 74-98-6)		AGW	1800 mg/m3
Ciliaan diavida		A C \A/	1000 ppm
Silicon dioxide		AGW	4 mg/m3 Inhalable fraction.
Talc (Mg3H2(SiO3)4) (CA	12	AGW	10 mg/m3 Inhalable fraction.

Titanium dioxide (CAS 13463-67-7)

14807-96-6)

Biological limit values

Germany

No biological exposure limits noted for the ingredient(s).

AGW

1,25 mg/m3

1,25 mg/m3

10 mg/m3

Respirable fraction.

Respirable fraction.

Inhalable fraction.

Follow standard monitoring procedures.

Recommended monitoring procedures

Derived no-effect level (DNEL)

Components		Туре	Route	Value	Form
Ethanol (CAS 64-17-5)		Consumer	Dermal	206 mg/kg/day	-
Comments:	Long term expo	osure systemic effects			
			Inhalation	950 mg/m3	-
Comments:	Short term exp	osure - local effects			
			Inhalation	114 mg/m3	
Comments:	Long term expo	osure systemic effects		C C	
			Oral	87 mg/kg/day	-
Comments:	Long term expo	osure systemic effects			
	C 1	Professional	Dermal	343 mg/kg/day	-
Comments:	Long term expo	osure systemic effects			
	C 1	•	Inhalation	950 mg/m3	-
Comments:	Long term expo	osure systemic effects		C C	
	C 1	•	Inhalation	1900 mg/m3	
Comments:	Short term exp	osure - local effects		C C	
Silicon dioxide		Professional	Inhalation	4 mg/m3	-
Comments:	Long term expo	osure systemic effects		C C	
Titanium dioxide (CAS 1	3463-67-7)	Consumer	Oral	700 mg/kg/day	-
Comments:	Long term expo	osure systemic effects			
		Industry	Inhalation	10 mg/m3	-
Comments:	Long term Loca	•		5	
	-	Professional	Inhalation	10 mg/m3	-
Comments:	Long term Loca	al effects		5	
	-				

Predicted no effect concentrations (PNECs)

Components	Туре	Route	Value	Form
Ethanol (CAS 64-17-5)	Not applicable	Oral	0,72 mg/g	
		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				
	neral ventilation (typical			

controlsshould be matched to conditions. If applicable, use process enclosures, local exhaust ventilation,
or other engineering controls to maintain airborne levels below recommended exposure limits. If
exposure limits have not been established, maintain airborne levels to an acceptable level.Individual protection measures,
General informationsuch as personal protective equipment
Use personal protective equipment as required. Personal protection equipment should be chosen
according to the CEN standards and in discussion with the supplier of the personal protective
equipment.Eye/face protectionWear safety glasses with side shields (or goggles).Skin protectionSkin protection

- Hand protection	Wear appropriate chemical resistant gloves.
- Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.

Hygiene 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.
Environmental exposure controls	Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Aerosol.
Form	Aerosol
Colour	Cream
Odour	neutral
Odour threshold	Not available.
рН	Not available.
Ignition temperature	> 450 °C (> 842 °F)
Melting point/freezing point	Not available.
Initial boiling point and boiling range	80 °C (176 °F) approximately
Flash point	Not applicable, as aerosol
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	1,5 %
Flammability limit - upper (%)	11 %
Vapour pressure	Not available.
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	550 mPa·s Without Propellant
Explosive properties	Not available.
Oxidising properties	Not available.
9.2. Other information	
Density	0,80
VOC (EU)	Not applicable
VOC (CH)	59,62 %

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	Carbon 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 example	(posure		
Inhalation	Prolonged inhalation may be harmful.		
Skin contact	No adverse effects due to skin contact are expected.		
Eye contact	Based on available data, the classification criteria are not met.		
Ingestion	May cause discomfort if swallowed.		
Symptoms	Exposure may cause temporary irritation, redness, or discomfort.		
11.1. Information on toxicologica	al effects		
Product	Species	Test results	
Scan spray lab	•		
Acute			
Inhalation			
Dust			
•		> 5 mg/l, 4 hours (calcd. ATE)	
	Species	Test results	
Talc (Mg3H2(SiO3)4) (CAS 14807-	96-6)		
<u>Acute</u> 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	Based on available data, the classification criteria are	e not met.	
Serious eye damage/eye irritation	Based on available data, the classification criteria are	e not met.	
Respiratory sensitisation	Based on available data, the classification criteria are	e not met.	
Skin sensitisation	Based on available data, the classification criteria are not met.		
Germ cell mutagenicity	CAS 64742-49-0: Note P is applicable (contains less 200-753-7), therefore no classification as mutagen	than 0,1 % w/w benzene (EINECS No	
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	e not met.	
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are	e not met.	
Aspiration hazard	Based on available data, the classification criteria are	e not met.	
Mixture versus substance information	No information available.		
Other information	Not available.		
SECTION 12: Ecological in	formation		
12.1. Toxicity	The product is not classified as environmentally haza possibility that large or frequent spills can have a har	rdous. However, this does not exclude the mful or damaging effect on the environment.	
12.2. Persistence and degradability	Not available.		
12.3. Bioaccumulative potential	Not available.		
Partition coefficient n-octanol			
/water (log Kow) Butane	2,89		
Isobutane	2,76		
Propane	2,36		
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 crite	eria of a PBT- or vPvB substance.	

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. 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

ADR	
14.1. UN number	UN1950
14.2. UN proper shipping	AEROSOLS, flammable
name	
14.3. Transport hazard clas	s(es)
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Hazard No. (ADR)	Not available.
Tunnel restriction code	D
14.4. Packing group	Not applicable.
14.5. Environmental hazard	s No.
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
for user	
Special provisions	190, 327, 344,625
Classification code	5F
ΙΑΤΑ	
14.1. UN number	UN1950
14.2. UN proper shipping	Aerosols, flammable
name	
14.3. Transport hazard clas	s(es)
Class	2.1
Subsidiary risk	
14.4. Packing group	Not applicable.
Packaging instructions	203
Packaging instructions	203
cargo only	
14.5. Environmental hazard	s No.
ERG Code	10L
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	30.00 kg
packaging - Limited	
quantity	
Special provisions	A145,A167,A802

IMDG

INIDG	
14.1. UN number 14.2. UN proper shipping	UN1950 AEROSOLS
name	
14.3. Transport hazard cla	ass(es)
Class	2
Subsidiary risk	5F
14.4. Packing group	Not applicable.
14.5. Environmental hazar	
Marine pollutant	No.
EmS 14.6. Special precautions	F-D,S-U Read safety instructions, SDS and emergency procedures before handling.
for user	read salety instructions, SDS and emergency procedures before handling.
Special provisions	63,190,277,327,344,959
14.7. Transport in bulk	Not available.
according to Annex II of	
MARPOL 73/78 and the IBC	
Code	
SECTION 15: Regulatory	<u>information</u>
15.1. Safety, health and enviro	onmental regulations/legislation specific for the substance or mixture
EU regulations	
Not applicable.	
Restrictions on use	
Directive 92/85/EEC: on th breastfeeding, as amende	ne safety and health of pregnant workers and workers who have recently given birth or are ed
Naphtha (petroleum), h	nydrotreated light (CAS 64742-49-0)
Other regulations	This Safety Data Sheet complies with the requirements of Regulation (EC) No 2015/830.
Other EU regulations	
Directive 94/33/EC on the	protection of young people at work, as amended
Naphtha (petroleum), h	hydrotreated light (CAS 64742-49-0)
VOC (EU):	Not applicable
	najor accident hazards involving dangerous substances
National regulations	Follow national regulation for work with chemical agents.
Water hazard class	
VwVwS (According to	WGK2
Annex IV)	
15.2. Chemical safety	No Chemical Safety Assessment has been carried out.
assessment	
SECTION 16: Other infor	rmation
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).

ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP). BAM: Federal Institute for Materials Research and Testing, Germany (Bundesanstalt für

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.

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). RIM: 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).

WEL-TWA: Workplace Exposure Limit-Long term exposure limit (8-hour TWA(=time weighted average)reference period).

WEL-STEL: Workplace Exposure Limit-Short term exposure limit (15-minute reference period).

WoE: Weight of evidence.

WGK: Water hazard class in accordance with VwVwS (German regulation)

WGK1:Slightly hazardous for water

WGK2: Water endangering.

WGK3: Severe hazard to waters

WHMIS: Workplace Hazardous Materials Information System.

WHO: World Health Organization.

wwt: wet weight.

Not available.

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

not written out in full under	
Sections 2 to 15	H220 Extremely flammable gas.
	H225 Highly flammable liquid and vapour.
	H280 Contains gas under pressure; may explode if heated.
	H304 May be fatal if swallowed and enters airways.
	H319 Causes serious eye irritation.
	H332 Harmful if inhaled.
	H335 May cause respiratory irritation.
	H340 May cause genetic defects.
	H350 May cause cancer.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.
Training information	Follow training instructions when handling this material.

Material name: Scan spray lab

References

Information on evaluation method leading to the

classification of mixture Full text of any H-statements 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.