SAFETY DATA SHEET



according to regulation (EU) No 453/2010

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

1.1. Product identifier

Trade name or designation

Occlusionsspray

of the mixture

Registration number

Synonyms None. SDS number 5380

Product code 150855, 150840, 150800, 150805

Issue date 25-June-2015

Version number 1,0

Revision date 25-June-2015
Product use Professional use

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

Identified usesCoating.Uses advised againstIntraoral use

1.3. Details of the supplier of the 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 + 49 (0) 201/ 8098290 (Mo. - Fr. 09:00 - 17:00)

number

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 1 H222 - Extremely flammable

aerosol.

H229 - Pressurized container: May

burst if heated.

Health hazards

Specific target organ toxicity - single Category 3 narcotic effects H336 - May cause drowsiness or

exposure dizziness.

Environmental hazards

Hazardous to the aquatic environment, Category 3 H412 - Harmful to aquatic life with

long-term aquatic hazard long lasting effects.

2.2. Label elements

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

Contains: Pentane

Hazard pictograms



Signal word Danger

Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurized container: May burst if heated.

 H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

Response None.

Storage

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal None.

Supplemental label information None.

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
Butane	50 - < 100	106-97-8 203-448-7	-	601-004-00-0	Note U, Note C
Classification:	Flam. Gas 1;H220, Pres	s. Gas;H280			
Propane	10 - 25	74-98-6 200-827-9	-	601-003-00-5	Note U
Classification:	Flam. Gas 1;H220, Pres	s. Gas;H280			
Isobutane	1 - 10	75-28-5 200-857-2	-	601-004-00-0	Note U, Note C
Classification:	Flam. Gas 1;H220, Pres	s. Gas;H280			
Pentane	1 - < 10	109-66-0 203-692-4	-	601-006-00-1	#, Note C
Classification:	Flam. Liq. 2;H225, Asp.	Tox. 1;H304, STO	T SE 3;H336, Aquatic Chronic	2;H411	

List of abbreviations and symbols that may be used above:

#: This substance has been assigned Community workplace exposure limit(s).

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 Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

InhalationIf symptoms develop move victim to fresh air. Get medical attention if symptoms persist.Skin contactWash 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

and special treatment needed

delayed

Direct contact with eyes may cause temporary irritation.

4.3. Indication of any Provide general supportive measures and treat symptomatically. **immediate medical attention**

SECTION 5: Firefighting measures

General fire hazards Extremely flammable aerosol.

5.1. Extinguishing media

Suitable extinguishing Powder. CO2, dry chemical, dry sand, alcohol-resistant foam.

media

Material name: Occlusionsspray SDS GERMANY

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.

5.3. Advice for firefighters

Special protective equipment for firefighters

Special fire fighting procedures

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

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.

Move containers from fire eres if you can do so without

Specific methods 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 upwind. Wear appropriate protective equipment and clothing during clean-up. Do not touch or walk through spilled material. 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. 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. This product is miscible in water. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Prevent product from entering drains. 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. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Store locked up. 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.

TRGS 510 storage class: 2B

7.3. Specific end use(s) Coating.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Germany Components	Туре	Value	Value	
Butane (CAS 106-97-8	B) STEL	9600 mg/m3		
		4000 ppm		
Isobutane (CAS 75-28	-5) STEL	STEL 9600 mg/m3		
		4000 ppm		
Pentane (CAS 109-66	-0) STEL	6000 mg/m3		
Comments:	15 minutes average value			
		2000 ppm		
Comments:	15 minutes average value			
Propane (CAS 74-98-6	STEL	7200 mg/m3		
		4000 ppm		

Material name: Occlusionsspray

SDS GERMANY

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

in the Work Area (DFG) Components		Туре	Value
Butane (CAS 106-97-8)		TWA	2400 mg/m3
			1000 ppm
sobutane (CAS 75-28-5))	TWA	2400 mg/m3
			1000 ppm
Pentane (CAS 109-66-0))	TWA	3000 mg/m3
			1000 ppm
Propane (CAS 74-98-6)		TWA	1800 mg/m3
,			1000 ppm
Germany - TRGS 900			
Components		Туре	Value
Butane (CAS 106-97-8)	45 ' '	STEL	9600 mg/m3
Comments:	15 minutes average	value	4000 nnm
Commonto	15 minutes average	value	4000 ppm
Comments: sobutane (CAS 75-28-5)	15 minutes average	STEL	9600 mg/m3
Comments:	<i>)</i> 15 minutes average	_	9000 mg/ms
Comments.	13 minutes average	value	4000 ppm
Comments:	15 minutes average	value	1000 pp
Pentane (CAS 109-66-0)		STEL	6000 mg/m3
Comments:	STV 15 minutes ave	erage value	S
		J	2000 ppm
Comments:	STV 15 minutes ave	erage value	
Propane (CAS 74-98-6)		STEL	7200 mg/m3
Comments:	15 minutes average	value	
			4000 ppm
Comments:	15 minutes average		
Germany. TRGS 900, Li	mit Values in the A		
Components		Туре	Value
Butane (CAS 106-97-8)		AGW	2400 mg/m3
			1000 ppm
sobutane (CAS 75-28-5))	AGW	2400 mg/m3
			1000 ppm
Pentane (CAS 109-66-0)		AGW	3000 mg/m3
			1000 ppm
Propane (CAS 74-98-6)		AGW	1800 mg/m3
,			1000 ppm
EU. Indicative Exposure	e Limit Values in Di	rectives 91/322/EEC, 2	2000/39/EC, 2006/15/EC, 2009/161/EU
Components		Туре	Value
Pentane (CAS 109-66-0)		TWA	3000 mg/m3
,			1000 ppm
ogical limit values	No biological	exposure limits noted fo	• •
g.cai iiiiii valacs	. to biological	spsoure infilto flotou it	

Biol

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no-effect level (DNEL) Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should 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, such as personal protective equipment

General information 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 protection If contact is likely, safety glasses with side shields are recommended.

Skin protection

- Hand protection Viton gloves are recommended. The choice of an appropriate glove does not only depend on its

material but also on other quality features and is different from one producer to the other.

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 Blue, Green, Red.

Odour Not available.

Odour threshold Not available.

pH Not available.

Ignition temperature 365 °C (689 °F)

Melting point/freezing point Not available.

Initial boiling point and boiling -44 °C (-47,2 °F)

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) 1,5 % Explosive limit - upper 10,9 %

(%)

Vapour pressure 2700 hPa (@ 20 °C)

Vapour densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water)NegligibleSolubility (other)Not available.Partition coefficientNot available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.Explosive propertiesNot available.Oxidising propertiesNot available.

9.2. Other information

Density 1,28 g/cm3 (@ 20 °C)

VOC (EU) Not applicable

SECTION 10: Stability and 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

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoidContact with incompatible materials.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information Not available.

Information on likely routes of exposure

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting.

Skin contactBased on available data, the classification criteria are not met. **Eye contact**Based on available data, the classification criteria are not met.

Ingestion May cause discomfort if swallowed.

Symptoms May cause drowsiness and dizziness. Headache. Nausea, vomiting.

11.1. Information on toxicological effects

Acute toxicity Narcotic effects.

Skin corrosion/irritationBased on available data, the classification criteria are not met. **Serious eye damage/eye**Based on available data, the classification criteria are not met.

irritation

Respiratory sensitisationBased on available data, the classification criteria are not met.Skin sensitisationBased on available data, the classification criteria are not met.Germ cell mutagenicityBased on available data, the classification criteria are not met.CarcinogenicityBased on available data, the classification criteria are not met.

Reproductive toxicityBased on available data, the classification criteria are not met.

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

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

Not 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

Not available.

12.3. Bioaccumulative potential Not available.

Partition coefficient n-octanol

/water (log Kow)

Pentane 3,39

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil Not available.

12.5. Results of PBT

and vPvB

The mixture contains no substance that fulfils the criteria of a PBT- or vPvB substance.

12.6. Other adverse effectsNo 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.

08 02 01 15 01 04

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 in accordance with all applicable regulations.

Read safety instructions, SDS and emergency procedures before handling.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN1950

AEROSOLS, flammable 14.2. UN proper shipping

name

14.3. Transport hazard class(es)

2.1 Class Subsidiary risk 2.1 Label(s)

Not available. Hazard No. (ADR)

Tunnel restriction code D

14.4. Packing group Not applicable.

14.5. Environmental hazards No.

14.6. Special precautions

for user

Special provisions 190, 327, 344,625 Classification code 5F

IATA

UN1950 14.1. UN number

14.2. UN proper shipping Aerosols, flammable

name

14.3. Transport hazard class(es)

Class 2.1 Subsidiary risk

Not applicable. 14.4. Packing group

Packaging instructions 203 Packaging instructions 203

cargo only

for user

14.5. Environmental hazards No. **ERG Code**

14.6. Special precautions

Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed.

Allowed. Cargo aircraft only 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

14.1. UN number UN1950 14.2. UN proper shipping **AEROSOLS**

14.3. Transport hazard class(es)

Subsidiary risk

14.4. Packing group Not applicable.

Material name: Occlusionsspray

150855, 150840, 150800, 150805 Version #: 1,0 Revision date: 25-June-2015 Issue date: 25-June-2015

14.5. Environmental hazards

Marine pollutant No. EmS F-D,S-U

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

Special provisions 63,190,277,327,344,959

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC

Code

Not available.

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

Not applicable.

Other regulations The product is classified and labelled in accordance with EC directives or respective national laws.

Other EU regulations

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

Pentane (CAS 109-66-0)

VOC (EU): Not applicable

Directive 2012/18/EU on major accident hazards involving dangerous substances

Category: P3a

National regulations Follow national regulation for work with chemical agents.

15.2. Chemical safety No Chemical Safety Assessment has been carried out.

assessment

Water hazard class

VwVwS (According to WGK2

Annex IV)

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.

150855, 150840, 150800, 150805 Version #: 1,0 Revision date: 25-June-2015 Issue date: 25-June-2015

Material name: Occlusionsspray

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.

Material name: Occlusionsspray

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.

Material name: Occlusionsspray

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. 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.

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).

The classification for health and environmental hazards is derived by a combination of calculation

WoE: Weight of evidence.

WHMIS: Workplace Hazardous Materials Information System.

WHO: World Health Organization.

wwt: wet weight. Not available.

Information on evaluation method leading to the classification of mixture

Full text of any H-statements not written out in full under Sections 2 to 15

methods and test data, if available.

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.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Revision information

Training information

Disclaimer

References

Follow training instructions when handling this material.

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.