

according to Regulation (EC) No. 1907/2006 (REACH)

µicro Scanspray – 500 ml

revision: 2019-02-14

cor	mpany/undertaking	
1.1	Product identifier	
	Trade name	µicro Scanspray / 500 ml
	Registration number (REACH)	not relevant (mixture)
	Other means of identification	
	article number	90418
1.2	Relevant identified uses of the	substance or mixture and uses advised against
	Relevant identified uses	coating for particular industrial and professional uses
1.3	Details of the supplier of the sa smart optics Sensortechnik GmbH Lise-Meitner-Allee 10 44801 Bochum Germany	afety data sheet
	Phone: +49 234 / 29 828-0 Fax: +49 234 / 29 828-20	

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

1.4 Emergency telephone number Emergency information service

E-mail: <u>info@smartoptics.de</u> Website: <u>www.smartoptics.de</u>

> +49 234 / 29 828-0 This number is only available during the following office hours: Mon-Fri 08:00 – 17:00 (CET)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Category	Hazard class and	Hazard state-
		<u> </u>	category	ment
2.3	aerosols	Cat. 1	(Aerosol 1)	H222,H22 9
3.8D	specific target organ toxicity – single exposure (narcotic effects,	Cat. 3	(STOT SE 3)	H336
4.1C	drowsiness) hazardous to the aquatic environment – chronic hazard	Cat. 3	(Aquatic Chronic 3)	H412

Remarks

For full text of H-phrases: see <u>SECTION 16</u>.

Supplemental hazard information

Code	Supplemental hazard information				
EUH066	repeated exposure may cause skin dryness or cracking				

The most important adverse physicochemical, human health and environmental effects Spillage and fire water can cause pollution of watercourses.



according to Regulation (EC) No. 1907/2006 (REACH)

µicro Scanspray – 500 ml

Version number: GHS 2.0

revision: 2019-02-14

2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 (CLP) Danger <u>Signal word</u> **Pictograms** GHS02, GHS07



H

Hazard stater	nents						
H222	Extremely flammable aerosol.						
H229	Pressurised container: May burst if heated.						
H336	May cause drowsiness or dizziness.						
H412	Harmful to aquatic life with long lasting effects.						
Precautionar	<u>y statements</u>						
Precautionary	y statements – general						
P101	If medical advice is needed, have product container or label at hand.						
P102	Keep out of reach of children.						
P103	Read label before use.						
Precautionary	y 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.						
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.						
Precautionary	y statements – response						
P312	Call a POISON CENTRE/doctor if you feel unwell.						
Precautionary	y statements – storage						
P403+P233	Store in a well-ventilated place. Keep container tightly closed.						
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.						
Precautionary	y statements – disposal						
P501	Dispose of contents/container to industrial combustion plant.						
Additional lab	<u>pelling requirements</u>						
EUH066	Repeated exposure may cause skin dryness or cracking.						
Hazardous in	gredients for labelling: pentane						
Other hazard	S						
Repeated expo	osure may cause skin dryness or cracking.						

SECTION 3: Composition/information on ingredients

Substances 3.1

not relevant (mixture)

3.2 **Mixtures**

2.3

Description of the mixture

Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC	Pictograms
butane	CAS No 106-97-8 EC No 203-448-7 REACH REC. No 01- 2119474691-32-xxxx	50 - < 75	Flam. Gas 1 / H220 Press. Gas L / H280	



according to Regulation (EC) No. 1907/2006 (REACH)

µicro Scanspray – 500 ml

revision: 2019-02-14

Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC	Pictograms
propane	CAS No 74-98-6 EC No 200-827-9 REACH REC. No 01- 2119486944-21-xxxx	10 - < 25	Flam. Gas 1 / H220 Press. Gas L / H280	
pentane	CAS No 109-66-0 EC No 203-692-4 REACH REC. No 01- 2119459286-30-xxxx	10 - < 25	Flam. Liq. 1 / H224 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411	
isobutane	CAS No 75-28-5 EC No 200-857-2 REACH REC. No 01- 2119485395-27-xxxx	1 - < 5	Flam. Gas 1 / H220 Press. Gas L / H280	
ethanol	CAS No 64-17-5 EC No 200-578-6 REACH REC. No 01- 2119457610-43-xxxx	1 - < 5	Flam. Liq. 2 / H225	

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

4.3 Indication of any immediate medical attention and special treatment needed None



according to Regulation (EC) No. 1907/2006 (REACH)

µicro Scanspray – 500 ml

Version number: GHS 2.0

revision: 2019-02-14

SECTION 5: Firefighting measures

5.1 Extinguishing media
 Suitable extinguishing media
 water spray, BC-powder
 Unsuitable extinguishing media
 water jet

5.2 Special hazards arising from the substance or mixture Hazardous combustion products nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2)

5.3 Advice for firefighters In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up Advices on how to contain a spill Covering of drains.

> **Other information relating to spills and releases** Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see <u>section 5</u>. Personal protective equipment: see <u>section 8</u>. Incompatible materials: see <u>section 10</u>. Disposal considerations: see <u>section 13</u>.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.



according to Regulation (EC) No. 1907/2006 (REACH)

µicro Scanspray – 500 ml

revision: 2019-02-14

7.2 Conditions for safe storage, including any incompatibilities Managing of associated risks

• Flammability hazards

Do not spray on an open flame or other ignition source. Protect from sunlight.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice

• Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

See <u>section 16</u> for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Cou	Name of agent	CAS No	Iden- tifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	-	Ceiling-C [mg/m ³]		Source
ntry						[bbiii]	[IIIg/III]	[ppm]	[mg/m ^s]	tion	2006/
EU	n-	109-	IOEL	1,000	3,000						2006/
	pentane	66-0	V								15/EC
GB	butane	106-	WEL	600	1,450	750	1,810				EH40/
		97-8									2005
GB	Pentane	109-	WEL	600	1,800						EH40/
		66-0									2005
GB	titanium	1346	WEL		10					Ι	EH40/
	dioxide	3-67-									2005
		7									
GB	titanium	1346	WEL		4					r	EH40/
	dioxide	3-67-									2005
		7									
GB	ethanol	64-	WEL	1,000	1,920						EH40/
		17-5									2005

Notation

Ceiling-C	Ceiling value is a limit value above which exposure should not occur
Ι	Inhalable fraction
r	Respirable fraction
STEL	Short-term exposure limit: a limit value above which exposure should not occur and which is related to
	a 15-minute period (unless otherwise specified)
TWA	Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs/DMELs/PNECs and other threshold levels

• relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
pentan	109-66-0	DNEL	432 mg/kg	Human, dermal	Worker	chronic – systemic
				Human, dermai	(industry)	Effects
pentan	109-66-0	DNEL	3,000	Human,	Worker	chronic – systemic
			mg/m³	inhalatory	(industry)	Effects
ethanol	64-17-5	DNEL	1,900	Human,	Worker	acute – local Effects



according to Regulation (EC) No. 1907/2006 (REACH)

µicro Scanspray – 500 ml

revision: 2019-02-14

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
			mg/m³	inhalatory	(industry)	
ethanol	64-17-5	DNEL	343 mg/kg	Human, dermal	Worker (industry)	chronic – systemic Effects
ethanol	64-17-5	DNEL	950	Human,	Worker	chronic – systemic
			mg/m³	inhalatory	(industry)	Effects

relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environ- mental com- partment	Exposure time
pentane	109-66-0	PNEC	3,600 µg/I	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
pentane	109-66-0	PNEC	880 hð\l	aquatic organisms	water	intermittent release
ethanol	64-17-5	PNEC	580 ^{mg} /l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
ethanol	64-17-5	PNEC	2.75 ^{mg} /l	aquatic organisms	water	intermittent release

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

Eye/face protection

Wear eye/face protection.

Skin protection

• hand protection

Wear suitable gloves. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

• other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

[In case of inadequate ventilation] wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.



according to Regulation (EC) No. 1907/2006 (REACH)

µicro Scanspray – 500 ml

revision: 2019-02-14

SECTION 9: Physical and chemical properties

9.1	Information on basic physical and chemical properties Appearance						
	Physical state	aerosol (spray aerosol)					
	Colour	white					
	Odour	characteristic					
	Other physical and chemical parameters pH (value)						
	Melting point/freezing point	-187.6 °C at 1,013 hPa					
	Initial boiling point and boiling range	-161.5 °C at 1,013 hPa					
	Flash point	-40 °C					
	Evaporation rate	not determined					
	Flammability (solid, gas)	Flammable aerosol in accordance with GHS criteria					
	Explosive limits						
	 lower explosion limit (LEL) 	1.4 vol%					
	 upper explosion limit (UEL) 	15 vol%					
	Vapour pressure	2,700 Pa					
	Density	0.67 – 0.69 g/cm³ at 20 °C					
	Solubility(ies)	not determined					
	Partition coefficient						
	n-octanol/water (log KOW)	This information is not available.					
	Auto-ignition temperature	260 $^{\circ}\text{C}$ (auto-ignition temperature (liquids and gases))					
		537 °C (relative self-ignition temperature for solids)					
	Viscosity	not relevant (aerosol)					
	Explosive properties	none					
	Oxidising properties	none					
9.2	Other information						
	Solvent content	13.58 %					
	Solid content	1.764 %					
	propellant content	84.66 %					

SECTION 10: Stability and reactivity

10.1	Reactivity
	Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".
	The mixture contains reactive substance(s): risk of ignition
10.2	Chemical stability
	See below "Conditions to avoid".
10.3	Possibility of hazardous reactions
	No known hazardous reactions.
10.4	Conditions to avoid
	Do not spray on an open flame or other ignition source. – Keep away from heat.
	Hints to prevent fire or explosion
	Protect from sunlight.

Physical stresses which might result in a hazardous situation and have to be avoided strong shocks



according to Regulation (EC) No. 1907/2006 (REACH)

µicro Scanspray – 500 ml

revision: 2019-02-14

10.5 Incompatible materials

oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see <u>section 5</u>.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if swallowed.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity (STOT)

• Specific target organ toxicity – single exposure

May cause drowsiness or dizziness.

• Specific target organ toxicity – repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Other information

Repeated exposure may cause skin dryness or cracking.



according to Regulation (EC) No. 1907/2006 (REACH)

µicro Scanspray – 500 ml

Version number: GHS 2.0

revision: 2019-02-14

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic toxicity (acute)

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
butane	106-97-8	LC50	27,98 ^{mg} /l	fish	96 h
butane	106-97-8	EC50	7.71 ^{mg} /l	algae	96 h
propane	74-98-6	LC50	27.98 ^{mg} /l	fish	96 h
propane	74-98-6	EC50	7.71 ^{mg} /l	algae	96 h
pentane	109-66-0	LL50	27.55 ^{mg} /l	fish	96 h
pentane	109-66-0	EL50	48.11 ^{mg} /l	aquatic invertebrates	48 h
pentane	109-66-0	EC50	2.8 ^{mg} /I	aquatic invertebrates	48 h
isobutane	75-28-5	LC50	49.9 mg/l	fish	96 h
isobutane	75-28-5	EC50	19.37 ^{mg} /l	algae	96 h
ethanol	64-17-5	LC50	14.2 ^g /l	fish	96 h
ethanol	64-17-5	EC50	12.9 ^g /l	fish	96 h

Aquatic toxicity (chronic)

May cause long-term adverse effects in the aquatic environment.

Aquatic toxicity (chronic) of components of the mixture

	Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Γ	ethanol	64-17-5	LC50	>0.08 ^{mg} /l	Fisch	42 d
Γ	ethanol	64-17-5	EC50	22.6 ^g /l	Alge	10 d
	ethanol	64-17-5	ErC50	675 ^{mg} /l	Alge	4 d

12.2 Persistence and degradability

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
pentane	109-66-0	oxygen depletion	3 %	7 d
ethanol	64-17-5	oxygen depletion	74 %	5 d

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
butane	106-97-8		1.09 (pH value: 7, 20 °C)	
propane	74-98-6		1.09 (pH value: 7, 20 °C)	
pentane	109-66-0	171	3.45 (pH value: 7, 25 °C)	
isobutane	75-28-5		1.09 (pH value: 7, 20 °C)	
ethanol	64-17-5		-0.35 (pH value: 7.4, 24 °C)	



according to Regulation (EC) No. 1907/2006 (REACH)

µicro Scanspray – 500 ml

revision: 2019-02-14

Version number: GHS 2.0

- **12.4 Mobility in soil** Data are not available.
- **12.5 Results of PBT and vPvB assessment** Data are not available.
- **12.6** Other adverse effects Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

14.1	UN number	1950	
14.2	UN proper shipping name	AEROSOLS	
14.3	Transport hazard class(es)		
	Class	2 (gases) (aerosol)	
	Subsidiary risk(s)	2.1 (flammability)	
14.4	Packing group	not assigned to a packing group	
14.5	Environmental hazards	none (non-environmentally hazardous acc. to the dangerous goods regulations)	
14.6	Special precautions for user Provisions for dangerous goods (ADR) should be complied within the premises.		
14.7	7 Transport in bulk according to Annex II of MARPOL and the IBC Code The cargo is not intended to be carried in bulk.		
	Information for each of the UN Model Regulations • Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)		
	UN number	1950	
	Proper shipping name	AEROSOLS	
	Class	2	
	Classification code	5F	
	Danger label(s)	2.1	



according to Regulation (EC) No. 1907/2006 (REACH)

µicro Scanspray – 500 ml

revision: 2019-02-14

Version number: GHS 2.0

Special provisions (SP)	190, 327, 344, 625
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
Transport category (TC)	2
Tunnel restriction code (TRC)	D
• International Maritime Dangerous Goo	ds Code (IMDG)
UN number	1950
Proper shipping name	AEROSOLS
Class	2.1
Danger label(s)	2.1
Special provisions (SP)	63, 190, 277, 327, 344, 381, 959
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
EmS	F-D, S-U
Stowage category	-
• International Civil Aviation Organizatio	n (ICAO-IATA/DGR)
UN number	1950
Proper shipping name	Aerosols, flammable
Class	2.1
Danger label(s)	2.1
Special provisions (SP)	A145, A167
Excepted quantities (EQ)	E0
Limited quantities (LQ)	30 kg

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

• Directive 75/324/EEC relating to aerosol dispensers

Classification of the gas/aerosol Extremely flammable Labelling Pressurized container: n

Pressurized container: may burst if heated Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Do not pierce or burn, even after use Protect from sunlight. Do not expose to temperatures exceeding 50°C/122 °F

15.2 Chemical Safety Assessment

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



according to Regulation (EC) No. 1907/2006 (REACH)

µicro Scanspray – 500 ml

revision: 2019-02-14

Version number: GHS 2.0

SECTION 16: Other information

Abbreviatior	is and acronyms
Abbr.	Descriptions of used abbreviations
2006/15/EC	Comission Directive establishing a second list of indicative occupational exposure limit
	values in implementation of Council Directive 98/24/EC and amending Directives
	91/322/EEC and 2000/39/EC
ADN	Accord européen relatif au transport international des marchandises dangereuses par
	voies de navigation intérieures (European Agreement concerning the International
	Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par
	route (European Agreement concerning the International Carriage of Dangerous
	Goods by Road)
Aquatic	Hazardous to the aquatic environment – chronic hazard
Chronic	
Asp. Tox.	Aspiration hazard
Abbr.	Descriptions of used abbreviations
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of
	chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances
CNID	and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC
	number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-
EH40/2005	government-licence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
-	
dilb	
ΙΑΤΑ	
-	
NLP	
Flam. Gas Flam. Liq. GHS IATA IATA/DGR ICAO IMDG IOELV IOG KOW MARPOL NLP PBT PNEC	Flammable gasFlammable liquid"Globally Harmonized System of Classification and Labelling of Chemicals" developedby the United NationsInternational Air Transport AssociationDangerous Goods Regulations (DGR) for the air transport (IATA)International Civil Aviation OrganizationInternational Maritime Dangerous Goods CodeIndicative occupational exposure limit valuen-Octanol/waterInternational Convention for the Prevention of Pollution from Ships (abbr. of "Marin Pollutant")No-Longer PolymerPersistent, Bioaccumulative and ToxicPredicted No-Effect Concentration



according to Regulation (EC) No. 1907/2006 (REACH)

µicro Scanspray – 500 ml

revision: 2019-02-14

Abbr.	Descriptions of used abbreviations
ppm	Parts per million
Press. Gas	Gas under pressure
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity – single exposure
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

Classification procedure

Physical and chemical properties: The classification is based on tested mixture. Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Code	Text
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H229	Pressurized container: may burst if heated.
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.
H412	Harmful to aquatic life with long lasting effects.

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Specific end use(s)

Coating for particular industrial and professional uses

<u>Disclaimer</u>

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.