

Page 1 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 03.05.2024 / 0026

Replacing version dated / version: 18.09.2022 / 0025

Valid from: 03.05.2024 PDF print date: 06.05.2024

Octane Plus

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

Octane Plus

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

Additives

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

Œ

LIQUI MOLY GmbH Jerg-Wieland-Str. 4 89081 Ulm-Lehr Tel.: (+49) 0731-1420-0

Tel.: (+49) 0731-1420-0 Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

(GB)

Landspitali- The National University Hospital of Iceland, tel. +354 543 2222 or 112 (valid only for Iceland)

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)

+1 872 5888271 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard classHazard categoryHazard statementAcute Tox.2H330-Fatal if inhaled.

Asp. Tox. 1 H304-May be fatal if swallowed and enters airways. Aquatic Chronic 2 H411-Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



Page 2 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 03.05.2024 / 0026

Replacing version dated / version: 18.09.2022 / 0025

Valid from: 03.05.2024 PDF print date: 06.05.2024

Octane Plus



Danger

H330-Fatal if inhaled. H304-May be fatal if swallowed and enters airways. H411-Toxic to aquatic life with long lasting effects.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

P260-Do not breathe vapours or spray. P271-Use only outdoors or in a well-ventilated area. P273-Avoid release to the environment. P301+P310-IF SWALLOWED: Immediately call a POISON CENTER / doctor. P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. P331-Do NOT induce vomiting.

P403+P233-Store in a well-ventilated place. Keep container tightly closed. P405-Store locked up.

P501-Dispose of contents / container to an approved waste disposal facility.

EUH066-Repeated exposure may cause skin dryness or cracking.

Hydrocarbons, C10, aromatics, >1% naphthalene Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics Tricarbonyl(methylcyclopentadienyl)manganese

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a. 3.2 Mixtures

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Registration number (REACH)	01-2119457273-39-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	918-481-9
CAS	
content %	75-<100
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066
	Asp. Tox. 1, H304

Hydrocarbons, C10, aromatics, >1% naphthalene	
Registration number (REACH)	01-2119463588-24-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	919-284-0
CAS	(64742-94-5)
content %	1-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066
	STOT SE 3, H336
	Asp. Tox. 1, H304
	Aquatic Chronic 2, H411



(B)

Page 3 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 03.05.2024 / 0026

Replacing version dated / version: 18.09.2022 / 0025

Valid from: 03.05.2024 PDF print date: 06.05.2024

Octane Plus

Tricarbonyl(methylcyclopentadienyl)manganese	
Registration number (REACH)	01-2119495971-23-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	235-166-5
CAS	12108-13-3
content %	2,5-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 1, H330
	Acute Tox. 2, H310
	Acute Tox. 3, H301
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)
Specific Concentration Limits and ATE	ATE (oral): 100 mg/kg
	ATE (dermal): 196,7 mg/kg
	ATE (as inhalation, Dusts or mist): 0,005 mg/l/4h
	ATE (as inhalation, Vapours): 0,1235 mg/l/4h

Naphthalene	Substance for which an EU exposure limit value applies.
Registration number (REACH)	
Index	601-052-00-2
EINECS, ELINCS, NLP, REACH-IT List-No.	202-049-5
CAS	91-20-3
content %	<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	Carc. 2, H351
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)
Specific Concentration Limits and ATE	ATE (oral): 490 mg/kg

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here. Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)."

Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here. The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

Respiratory arrest - Artificial respiration apparatus necessary.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap. Call a doctor immediately, keep datasheet at hand

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

The following may occur:

Irritation of the eyes



(B)

Page 4 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 03.05.2024 / 0026

Replacing version dated / version: 18.09.2022 / 0025

Valid from: 03.05.2024 PDF print date: 06.05.2024

Octane Plus

Product removes fat.

Dermatitis (skin inflammation)

Ingestion:

Danger of aspiration.

Lung damage

Inhalation:

headaches

irritation of the respiratory tract

nausea

Dizziness

Other dangerous properties cannot be ruled out.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media

CO₂

Extinction powder

Foam

Water jet spray

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of sulphur

Metal oxides

Toxic gases

5.3 Advice for firefighters

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

Full protection

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Keep unprotected persons away.

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

If air supply is not sufficient, wear protective breathing apparatus.

Avoid inhalation, and contact with eyes or skin.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.



Page 5 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 03.05.2024 / 0026

Replacing version dated / version: 18.09.2022 / 0025

Valid from: 03.05.2024 PDF print date: 06.05.2024

Octane Plus

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

Fill the absorbed material into lockable containers.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Suction measures at the workplace or on the processing machines required.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Avoid inhalation, and contact with eyes or skin.

Handle and open container with care.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep locked away.

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Solvent resistant floor

Do not store with oxidizing agents.

Observe special storage conditions.

Store in a well ventilated place.

Store cool.

7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 800 mg/m3

Chemical Name	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics					
WEL-TWA: 800 mg/m3	WEL-STEL:					
Monitoring procedures:	 Draeger - Hydrocarbons 0,1%/c (81 03 571) 					
	 Draeger - Hydrocarbons 2/a (81 03 581) 					
	- Compur - KITA-187 S (551 174)					
BMGV:	Other information	on: (OEL acc. to RCP-method,				
	paragraphs 84-	87, EH40)				

Chemical Name Hydrocarbons, C10, aromatics, >1% naphthalene					
WEL-TWA: 500 mg/m3 (Aromatics)	WEL-STEL:				
Monitoring procedures:	 Draeger - Hydrocarbons 0,1%/c (81 03 571) 				
	- Draeger - Hydrocarbons 2/a (81 03 581)				



Page 6 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 03.05.2024 / 0026

Replacing version dated / version: 18.09.2022 / 0025

Valid from: 03.05.2024 PDF print date: 06.05.2024

Octane Plus

BMGV:	Other information:				
© Chemical Name Naphthale	ne				
WEL-TWA: 500 mg/m3 (Aromatics) (WEL-TW	A), 10 WEL-STEL:				
ppm (50 mg/m3) (EU)					
Monitoring procedures:	- Compur - KITA-153 U(C) (551 182)				
	 NIOSH 5506 (POLYNUCLEAR AROMATIC HYDROCARBO 	ONS by HPLC) - 1998			
	 NIOSH 5515 (POLYNUCLEAR AROMATIC HYDROCARBO 	ONS by GC) - 1994			
	- OSHA 35 (Napthalene) - 1982				
BMGV:	Other information:				

Hydrocarbons, C10, aromatics, >1% naphthalene							
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note	
Consumer	Human - dermal	Long term, systemic effects	DNEL	7,5	mg/kg bw/d		
Consumer	Human - inhalation	Long term, systemic effects	DNEL	32	mg/m3		
Consumer	Human - oral	Long term, systemic effects	DNEL	7,5	mg/kg bw/d		
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	151	mg/m3		
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	12,5	mg/kg bw/d		
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	151	mg/m3		

Tricarbonyl(methylcyclop	Tricarbonyl(methylcyclopentadienyl)manganese						
Area of application	Exposure route / Environmental	Environmental		Value	Unit	Note	
	Environment - freshwater Environment - marine		PNEC PNEC	0,21	μg/l μg/l		
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,062	mg/kg bw/day		
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,11	mg/m3		
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,11	mg/kg bw/day		
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,6	mg/kg bw/day		

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
••	Environmental		•			
	compartment					
	Environment - freshwater		PNEC	2,4	μg/l	
	Environment - marine		PNEC	0,24	μg/l	
	Environment - sewage treatment plant		PNEC	2,9	mg/l	
	Environment - sediment, freshwater		PNEC	0,0672	mg/kg dry weight	
	Environment - sediment, marine		PNEC	0,0672	mg/kg dry weight	
	Environment - soil		PNEC	0,0533	mg/kg dry weight	
	Environment - sporadic (intermittent) release		PNEC	0,02	mg/l	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	3,57	mg/kg bw/dav	



Page 7 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 03.05.2024 / 0026

Replacing version dated / version: 18.09.2022 / 0025

Valid from: 03.05.2024 PDF print date: 06.05.2024

Octane Plus

Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	25	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	25	mg/m3	

 - United Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:

(8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/CE).

| WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:

(8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).

| BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |

Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE).

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Solvent resistant protective gloves (EN ISO 374).

If applicable

Protective Viton® / fluoroelastomer gloves (EN ISO 374).

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm:

>= 0,4

Permeation time (penetration time) in minutes:

>= 480

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

If OES or MEL is exceeded.

Filter A P3 (EN 14387), code colour brown, white



Page 8 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 03.05.2024 / 0026

Replacing version dated / version: 18.09.2022 / 0025

Valid from: 03.05.2024 PDF print date: 06.05.2024

Octane Plus

At high concentrations:

Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138) Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:

Colour: Yellow, Clear Odour: Characteristic

Melting point/freezing point: There is no information available on this parameter.

Boiling point or initial boiling point and boiling range: There is no information available on this parameter.

Flammability: Flammable

Lower explosion limit: There is no information available on this parameter. Upper explosion limit: There is no information available on this parameter.

Flash point:

Auto-ignition temperature: There is no information available on this parameter. Decomposition temperature: There is no information available on this parameter.

Kinematic viscosity:

Solubility: Insoluble

Partition coefficient n-octanol/water (log value): Does not apply to mixtures.

Vapour pressure: There is no information available on this parameter. Density and/or relative density: 0,8118 g/ml (20°C)

Relative vapour density: There is no information available on this parameter.

Particle characteristics: Does not apply to liquids. 9.2 Other information

Explosives: There is no information available on this parameter. Oxidising liquids: There is no information available on this parameter.

SECTION 10: Stability and reactivity

<=20,5 mm2/s (40°C)

10.1 Reactivity

pH:

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources

10.5 Incompatible materials

See also section 7.

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products



③B)·

Page 9 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 03.05.2024 / 0026

Replacing version dated / version: 18.09.2022 / 0025

Valid from: 03.05.2024 PDF print date: 06.05.2024

Octane Plus

See also section 5.2

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Possibly more information on health effects, see Section 2.1 (classification).

Octane Plus	21111 0110010, 001	3 33311 2.1 (01	accincation).			
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	>2000	mg/kg	3		calculated value
Acute toxicity, by dermal route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by inhalation:	ATE	2,49-3,74	mg/l/4h			calculated value,
						Vapours
Acute toxicity, by inhalation:	ATE	0,1-0,15	mg/l/4h			calculated value,
						Aerosol
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	Analogous
					Toxicity)	conclusion
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute	Analogous
					Dermal Toxicity)	conclusion
Acute toxicity, by inhalation:	LC50	>4951	mg/m3/4h	Rat	OECD 403 (Acute	Analogous
, , ,					Inhalation Toxicity)	conclusion,
						Vapours
Skin corrosion/irritation:					OECD 404 (Acute	Not irritant,
					Dermal	Analogous
					Irritation/Corrosion)	conclusion
Serious eye damage/irritation:					OECD 405 (Acute Eye	Not irritant,
, 0					Irritation/Corrosion)	Analogous
					,	conclusion
Respiratory or skin					OECD 406 (Skin	Not sensitizising
sensitisation:					Sensitisation)	Analogous
					,	conclusion
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative,
					Mammalian	Analogous
					Chromosome	conclusion
					Aberration Test)	
Germ cell mutagenicity:					OECD 474 (Mammalian	Negative,
					Erythrocyte	Analogous
					Micronucleus Test)	conclusion
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Carcinogenicity:					OECD 453 (Combined	Negative,
					Chronic	Analogous
					Toxicity/Carcinogenicity	conclusion
					Studies)	
Reproductive toxicity:					OECD 414 (Prenatal	Negative,
-					Developmental Toxicity	Analogous
					Study)	conclusion



Page 10 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 03.05.2024 / 0026

Replacing version dated / version: 18.09.2022 / 0025 Valid from: 03.05.2024

PDF print date: 06.05.2024

Octane Plus

Specific target organ toxicity - repeated exposure (STOT-RE):			OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Negative, Analogous conclusion
Aspiration hazard:				Yes
Symptoms:				unconsciousness , headaches, dizziness,
				mucous membrane irritation

Hydrocarbons, C10, aromatics, >1% naphthalene									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes			
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit					
Acute toxicity, by inhalation:	LC50	>590	mg/m3	Rat		Vapours			
Aspiration hazard:						Yes			

Tricarbonyl(methylcyclopentadienyl)manganese										
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes				
Acute toxicity, by oral route:	ATE	100	mg/kg							
Acute toxicity, by oral route:	LD50	100	mg/kg							
Acute toxicity, by dermal route:	ATE	196,7	mg/kg							
Acute toxicity, by dermal route:	LD50	196,7	mg/kg							
Acute toxicity, by inhalation:	ATE	0,1235	mg/l/4h			Vapours				
Acute toxicity, by inhalation:	ATE	0,005	mg/l/4h			Dusts or mist				
Acute toxicity, by inhalation:	LC50	0,1235	mg/l/4h			Vapours				
Skin corrosion/irritation:		2,79		Rabbit	OECD 404 (Acute	Not irritant				
					Dermal					
					Irritation/Corrosion)					
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative				
				typhimurium	Reverse Mutation Test)					
Germ cell mutagenicity:				Mouse	OECD 478 (Genetic	Negative				
					Toxicology - Rodent					
					dominant Lethal Test)					
Reproductive toxicity				Rat	OECD 414 (Prenatal	Negative				
(Developmental toxicity):					Developmental Toxicity	_				
•					Study)					

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	490	mg/kg	Rat		
Acute toxicity, by oral route:	ATE	490	mg/kg			
Acute toxicity, by dermal route:	LD50	>2500	mg/kg	Rat		
Acute toxicity, by inhalation:	LD50	>0,4	mg/l/4h	Rat	OECD 403 (Acute	Vapours
					Inhalation Toxicity)	
Respiratory or skin sensitisation:				Guinea pig		No (skin contact)
Reproductive toxicity:	NOAEL	120	mg/kg	Rabbit	OECD 414 (Prenatal	Female
					Developmental Toxicity	
					Study)	
Reproductive toxicity:	LOAEL	50	mg/kg	Rat	OECD 414 (Prenatal	Female
					Developmental Toxicity	
					Study)	
Specific target organ toxicity -	LOAEL	400	mg/kg	Rat	OECD 408 (Repeated	
repeated exposure (STOT-RE),					Dose 90-Day Oral	
oral:					Toxicity Study in	
					Rodents)	
Specific target organ toxicity -	NOAEL	1000	mg/kg	Rat	OECD 411 (Subchronic	
repeated exposure (STOT-RE),					Dermal Toxicity - 90-day	
dermal:					Study)	
Specific target organ toxicity -	LOAEL	0,011	mg/l	Rat	OECD 413 (Subchronic	Vapours
repeated exposure (STOT-RE),					Inhalation Toxicity - 90-	
inhalat.:					Day Study)	



Page 11 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 03.05.2024 / 0026

Replacing version dated / version: 18.09.2022 / 0025

Valid from: 03.05.2024 PDF print date: 06.05.2024

Octane Plus

Symptoms:		lack of appetite,
-		ataxia, breathing
		difficulties,
		unconsciousness
		, diarrhoea,
		cornea opacity,
		headaches,
		cramps,
		gastrointestinal
		disturbances,
		mucous
		membrane
		irritation,
		dizziness,
		nausea and
		vomiting.,
		sweating,
		Reddening,
		eyes, reddened

11.2. Information on other hazards

Octane Plus									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes			
Endocrine disrupting properties:						Does not apply			
						to mixtures.			
Other information:						No other			
						relevant			
						information			
						available on			
						adverse effects			
						on health.			

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics										
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes				
Other information:						Repeated				
						exposure may				
						cause skin				
						dryness or				
						cracking.				

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

Octane Plus				,	,		
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	-						n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and							Isolate as much
degradability:							as possible with
							an oil separator.
12.3. Bioaccumulative							n.d.a.
potential:							
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT							n.d.a.
and vPvB assessment							
12.6. Endocrine							Does not apply
disrupting properties:							to mixtures.



Page 12 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 03.05.2024 / 0026

Replacing version dated / version: 18.09.2022 / 0025 Valid from: 03.05.2024

PDF print date: 06.05.2024

Octane Plus

12.7. Other adverse effects:				ormation ble on
			other	adverse
			effects	s on the
			enviro	nment.
Other information:	AOX			ding to the
				e, contains
			no AC	
Other information:				elimination
				e(complexi
			ng org	
				ance)>=
			80%/2	28d: No

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOELR	28d	0,101	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to fish:	LL50	96h	>1000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EL50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOELR	21d	0,176	mg/l	Daphnia magna	,	
12.1. Toxicity to algae:	EL50	72h	>1000	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	80	%	activated sludge	OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
12.3. Bioaccumulative potential:	BCF		10-2500				High
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Other organisms:	EL50	48h	>1000	mg/l	Tetrahymen pyriformis		
Water solubility:							Product floats o the water surface.

Hydrocarbons, C10, arou	matics, >1% na	phthalene					
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	2-5	mg/l	Pimephales		
					promelas		
12.1. Toxicity to daphnia:	EC50	48h	3-10	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	1 - 3	mg/l	Pseudokirchneriell		
					a subcapitata		
12.2. Persistence and degradability:		28d	58	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Inherent
12.3. Bioaccumulative potential:	Log Pow		3,3				
12.3. Bioaccumulative potential:	BCF		<100				Low

Tricarbonyl(methylcyclopentadienyl)manganese



Œ

Page 13 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 03.05.2024 / 0026

Replacing version dated / version: 18.09.2022 / 0025

Valid from: 03.05.2024 PDF print date: 06.05.2024

Octane Plus

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,21	mg/l	Cyprinus carpio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	LC50	48h	0,83	mg/l	Daphnia magna	1004	EPA OTS 797.1300
12.1. Toxicity to algae:	EC50	48h	1,7	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	growth rate
12.1. Toxicity to algae:	EC50	48h	0,41	mg/l	Raphidocelis subcapitata	OECD 201 (Alga, Growth Inhibition Test)	biomass
12.2. Persistence and degradability:		56d	4	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Not readily biodegradable
12.2. Persistence and degradability:		60d	0	%		OECD 308 (Aerobic and Anaerobic Transformation in Aquatic Sediment Systems)	
12.3. Bioaccumulative potential:	Log Pow		3,7				
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	1,99	mg/l	Pimephales		Does not
·					promelas		conform with EU classification.
12.1. Toxicity to fish:	LC50	96h	0,51	mg/l			
12.1. Toxicity to fish:	LC50	96h	0,11	mg/l	Oncorhynchus		
					mykiss		
12.1. Toxicity to daphnia:	NOEC/NOEL	>60d	0,6	mg/l	Daphnia pulex		
12.1. Toxicity to daphnia:	EC50	48h	1,6-24,1	mg/l	Daphnia magna		
12.1. Toxicity to algae:	LC50	4h	2,96	mg/l	Selenastrum		
					capricornutum		
12.1. Toxicity to algae:	ErC50	72h	0,4	mg/l	Skeletonema		
					costatum		
12.2. Persistence and		28d	2	%			Not readily
degradability:							biodegradable
12.3. Bioaccumulative potential:	BCF	28d	40-300				Lowfish
12.4. Mobility in soil:	Koc		817				
12.4. Mobility in soil:	Koc		240-				
			1300				
Other information:	BOD5		0	%			
Other information:	COD		22	%			
Other information:	Log Pow		3,3				

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of. EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)



Page 14 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 03.05.2024 / 0026

Replacing version dated / version: 18.09.2022 / 0025

Valid from: 03.05.2024 PDF print date: 06.05.2024

Octane Plus

07 06 04 other organic solvents, washing liquids and mother liquors 07 07 04 other organic solvents, washing liquids and mother liquors

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Implement substance recycling. E.g. suitable incineration plant.

For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

SECTION 14: Transport information

General statements

Transport by road/by rail (ADR/RID)

14.1. UN number or ID number: 2810

14.2. UN proper shipping name:

UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (TRICARBONYL(METHYLCYCLOPENTADIENYL)MANGANESE)

14.3. Transport hazard class(es):
14.4. Packing group:
III

14.5. Environmental hazards: environmentally hazardous

Tunnel restriction code: E
Classification code: T1
LQ: 5 L
Transport category: 2

Transport by sea (IMDG-code)

14.1. UN number or ID number: 2810 14.2. UN proper shipping name:

UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (TRICARBONYL(METHYLCYCLOPENTADIENYL)MANGANESE)

14.3. Transport hazard class(es):

6.1

14.4. Packing group:

14.5. Environmental hazards: environmentally hazardous

Marine Pollutant: Yes EmS: F-A, S-A

Transport by air (IATA)

14.1. UN number or ID number: 2810

14.2. UN proper shipping name:

UN 2810 Toxic liquid, organic, n.o.s. (TRICARBONYL(METHYLCYCLOPENTADIENYL)MANGANESE)

14.3. Transport hazard class(es):6.114.4. Packing group:III

14.5. Environmental hazards:

Not applicable

14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained. All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

14.7. Maritime transport in bulk according to IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request. Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)! Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!









(B)

Page 15 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 03.05.2024 / 0026

Replacing version dated / version: 18.09.2022 / 0025

Valid from: 03.05.2024 PDF print date: 06.05.2024

Octane Plus

Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered

according to storage, handling etc.):

according to storage, nandling etc.)).		
Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of	Qualifying quantity (tonnes) of
		dangerous substances as	dangerous substances as
		referred to in Article 3(10) for the	referred to in Article 3(10) for the
		application of - Lower-tier	application of - Upper-tier
		requirements	requirements
H2		50	200
E2		200	500

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC):

96.4 %

Observe incident regulations.

National requirements/regulations on safety and health protection must be applied when using work equipment.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

2, 3, 8, 11, 12, 15, 16

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
, ,	
Acute Tox. 2, H330	Classification according to calculation procedure.
Asp. Tox. 1, H304	Classification according to calculation procedure.
Aquatic Chronic 2, H411	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents.

H310 Fatal in contact with skin.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H330 Fatal if inhaled.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Acute Tox. — Acute toxicity - inhalation

Asp. Tox. — Aspiration hazard

Aquatic Chronic — Hazardous to the aquatic environment - chronic

STOT SE — Specific target organ toxicity - single exposure - narcotic effects

Acute Tox. — Acute toxicity - dermal

Acute Tox. — Acute toxicity - oral

Aquatic Acute — Hazardous to the aquatic environment - acute

Carc. — Carcinogenicity



Page 16 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 03.05.2024 / 0026

Replacing version dated / version: 18.09.2022 / 0025

Valid from: 03.05.2024 PDF print date: 06.05.2024

Octane Plus

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:

according, according to acc., acc. to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

Bundesanstalt für Materialforschung und -prüfung (= Federal Institute for Materials Research and Testing, Germany) BAM BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BSEF The International Bromine Council

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EbCx, EyCx, EbLx (x = 10, 50)Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

European Community ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

EEC European Economic Community

European Inventory of Existing Commercial Chemical Substances **EINECS**

ELINCS European List of Notified Chemical Substances

ΕN European Norms

EPA United States Environmental Protection Agency (United States of America)

ErCx, $E\mu Cx$, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)

etc. et cetera

European Union EU

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number general gen.

Globally Harmonized System of Classification and Labelling of Chemicals GHS

Global warming potential **GWP**

Adsorption coefficient of organic carbon in the soil Koc

Kow octanol-water partition coefficient

IARC International Agency for Research on Cancer International Air Transport Association IATA IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

including, inclusive

IUCLID International Uniform Chemical Information Database



Page 17 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 03.05.2024 / 0026

Replacing version dated / version: 18.09.2022 / 0025

Valid from: 03.05.2024 PDF print date: 06.05.2024

Octane Plus

IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

Log Koc Logarithm of adsorption coefficient of organic carbon in the soil Log Kow, Log Pow Logarithm of octanol-water partition coefficient

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

mg/kg bw mg/kg body weight

mg/kg bw/d, mg/kg bw/day mg/kg body weight/day

mg/kg dw mg/kg dry weight mg/kg wwt mg/kg wet weight

n.a. not applicable n.av. not available n.c. not checked n.d.a. no data available

NIOSH National Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration,

Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 6/7/8/9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical

identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-

IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by:

Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

© by Chemical Check GmbH Gefahrstoffberatung. The copying or changing of this document is forbidden except with consent of the Chemical Check GmbH Gefahrstoffberatung.