

Page 1 of 22

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

Revision date / version: 04.06.2024 / 0009

Replacing version dated / version: 22.05.2024 / 0008

Valid from: 04.06.2024 PDF print date: 04.06.2024

Octane Booster

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 Booster

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

Additive

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH Jerg-Wieland-Str. 4 89081 Ulm-Lehr 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

1.4 Emergency telephone number

Emergency information services / official advisory body:

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 class Hazard category **Hazard statement** Acute Tox. H332-Harmful if inhaled.

Eye Dam. 1 H318-Causes serious eye damage.

1 H304-May be fatal if swallowed and enters airways. Asp. Tox. Aquatic Chronic 3 H412-Harmful to aquatic life with long lasting effects.

2.2 Label elements

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



(B)

Page 2 of 22

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

Revision date / version: 04.06.2024 / 0009

Replacing version dated / version: 22.05.2024 / 0008

Valid from: 04.06.2024 PDF print date: 04.06.2024

Octane Booster



Danger

H332-Harmful if inhaled. H318-Causes serious eye damage. H304-May be fatal if swallowed and enters airways. H412-Harmful 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.

P261-Avoid breathing vapours or spray. P273-Avoid release to the environment. P280-Wear eye protection / face protection.

P301+P310-IF SWALLOWED: Immediately call a POISON CENTER / doctor. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P331-Do NOT induce vomiting. 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, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

Hydrocarbons, C10, aromatics, >1% naphthalene

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Bornan-2-one

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 %).

Dangerous vapours heavier than air.

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 %	60-90
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066
	Asp. Tox. 1, H304

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Registration number (REACH)	01-2119456620-43-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	926-141-6
CAS	
content %	1-<10



Page 3 of 22

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 04.06.2024 / 0009

Replacing version dated / version: 22.05.2024 / 0008

Valid from: 04.06.2024 PDF print date: 04.06.2024

Octane Booster

Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066
	Asp. Tox. 1, H304
Bornan-2-one	
Registration number (REACH)	01-2119966156-31-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	200-945-0
CAS	76-22-2
content %	3-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Sol. 2, H228
	Acute Tox. 4, H332
	Skin Irrit. 2, H315
	Eye Dam. 1, H318
	STOT SE 2, H371 (lung) (as inhalation)
	Aquatic Chronic 2, H411
Specific Concentration Limits and ATE	ATE (as inhalation, Dusts or mist): 1,5 mg/l/4h
	ATE (as inhalation, Vapours): 11 mg/l/4h

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-<2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066
	Carc. 2, H351
	STOT SE 3, H336
	Asp. Tox. 1, H304
	Aquatic Chronic 2, H411

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 %	0,25-<0,5
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 %	0,1-<0,25
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.



Œ

Page 4 of 22

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

Revision date / version: 04.06.2024 / 0009

Replacing version dated / version: 22.05.2024 / 0008

Valid from: 04.06.2024 PDF print date: 04.06.2024

Octane Booster

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. No classification is required for the mixture with Carc. 2, H351, as the naphthalene content in the product is < 1 %. No other ingredients with this classification are present.

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.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

Protect uninjured eye.

Follow-up examination by an ophthalmologist.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

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.

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

eyes, reddened

watering eyes

irritation of the eyes

Drying of the skin.

Dermatitis (skin inflammation)

Nausea

Vomiting

Danger of aspiration.

Oedema of the lungs

Chemical pneumonitis (condition similar to pneumonia)

4.3 Indication of any immediate medical attention and special treatment needed

Gastric lavage (stomach washing) only under endotracheal intubation.

Subsequent observation for pneumonia and pulmonary oedema.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water jet spray/foam/CO2/dry extinguisher

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 nitrogen

Toxic gases

5.3 Advice for firefighters

For personal protective equipment see Section 8.



Œ

Page 5 of 22

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

Revision date / version: 04.06.2024 / 0009

Replacing version dated / version: 22.05.2024 / 0008

Valid from: 04.06.2024 PDF print date: 04.06.2024

Octane Booster

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

Protective respirator with independent air supply.

According to size of fire Full protection, if necessary. 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.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

Resolve leaks if this possible without risk.

If leakage occurs, dam up.

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

Prevent from entering drainage system.

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, sawdust) 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.

Keep away from sources of ignition - Do not smoke.

Avoid contact with eyes or skin.

Do not carry cleaning cloths soaked in product in trouser pockets.

 $\label{lem:eq:composition} \textbf{Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.}$

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 out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Under all circumstances prevent penetration into the soil.

Store in a well ventilated place.

Store cool.

Store in a dry place.

7.3 Specific end use(s)

No information available at present.



®-

Page 6 of 22

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

Revision date / version: 04.06.2024 / 0009

Replacing version dated / version: 22.05.2024 / 0008

Valid from: 04.06.2024 PDF print date: 04.06.2024 Octane Booster

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

Ob and a lateral				
	Hydrocarbons, C1	0-C13, n-alkanes, isoalkanes, cycli	cs, <2% aromatics	
WEL-TWA: 800 mg/m3		WEL-STEL:		
Monitoring procedures:	- [Draeger - Hydrocarbons 0,1%/c (8	l 03 571)	
	- [Draeger - Hydrocarbons 2/a (81 03	581)	
	- (Compur - KITA-187 S (551 174)		
BMGV:			Other information: (O	EL acc. to RCP-method,
			paragraphs 84-87, EH4	10)
Chemical Name	Hydrocarbona C1	1-C14, n-alkanes, isoalkanes, cycli	oc 20/ promotion	
WEL-TWA: 1200 mg/m3 (>=C7 nor	mal and branched	WEL-STEL:	cs, <2% aromatics	
chain alkanes)	mai and branched	WEL-SIEL		
			1.02.571)	
Monitoring procedures:		Draeger - Hydrocarbons 0,1%/c (8°		
		Draeger - Hydrocarbons 2/a (81 03	581)	
BMGV:	- (Compur - KITA-187 S (551 174)	Other information:	
BIVIGV:			Other information:	
Chemical Name	Bornan-2-one			
WEL-TWA: 2 ppm (12 mg/m3)		WEL-STEL: 3 ppm (19 mg/m3)	
Monitoring procedures:	-			
BMGV:			Other information:	
Chemical Name	Hydrocarbons C1	0, aromatics, >1% naphthalene		
WEL-TWA: 500 mg/m3 (Aromatics)	Trydrocarbons, CT	WEL-STEL:		
Monitoring procedures:		Draeger - Hydrocarbons 0,1%/c (8°	1 03 571)	
Monitoring procedures.		Draeger - Hydrocarbons 0,176/6 (6 Draeger - Hydrocarbons 2/a (81 03		
		Compur - KITA-187 S (551 174)	361)	
BMGV:		5011pai - 1(174-167-5 (551-174)	Other information:	
			Other information:	
Chemical Name	Naphthalene			
WEL-TWA: 500 mg/m3 (Aromatics)	(WEL-TWA), 10	WEL-STEL:		
ppm (50 mg/m3) (EU)				
Monitoring procedures:		Compur - KITA-153 U(C) (551 182)		
		NIOSH 5506 (POLYNUCLEAR AR		
		NIOSH 5515 (POLYNUCLEAR AR	OMATIC HYDROCARBO	NS by GC) - 1994
	- (OSHA 35 (Napthalene) - 1982		
BMGV:			Other information:	

rea of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	1,71	µg/l	
	Environment - marine		PNEC	0,171	µg/l	
	Environment - sediment, freshwater		PNEC	0,139	mg/kg	
	Environment - sediment, marine		PNEC	0,017	mg/kg	
	Environment - soil		PNEC	0,013	mg/kg	
	Environment - sewage treatment plant		PNEC	1	mg/l	



Page 7 of 22

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 04.06.2024 / 0009

Replacing version dated / version: 22.05.2024 / 0008 Valid from: 04.06.2024

PDF print date: 04.06.2024

	Environment - water, sporadic (intermittent) release		PNEC	1,71	μg/l	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	4,348	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	5	mg/kg bw/d	
Consumer	Human - oral	Long term, systemic effects	DNEL	5	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	17,632	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	10	mg/kg bw/d	

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/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	32	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	7,5	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	12,5	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	151	mg/m3	

Tricarbonyl(methylcyclor	pentadienyl)manganese					
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater Environment - marine		PNEC PNEC	0,21 0,021	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	

Naphthalene						
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		PNEC	2,9	mg/l	
	treatment plant					
	Environment - sediment,		PNEC	0,0672	mg/kg dry	
	freshwater				weight	
	Environment - sediment,		PNEC	0,0672	mg/kg dry	
	marine				weight	
	Environment - soil		PNEC	0,0533	mg/kg dry	
					weight	
	Environment - sporadic		PNEC	0,02	mg/l	
	(intermittent) release					



Œ

Page 8 of 22

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

Revision date / version: 04.06.2024 / 0009

Replacing version dated / version: 22.05.2024 / 0008

Valid from: 04.06.2024 PDF print date: 04.06.2024

Octane Booster

Workers / employees	Human - dermal	Long term, systemic effects	DNEL	3,57	mg/kg bw/day
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:

Chemical resistant protective gloves (EN ISO 374).

Recommended

Protective Neoprene® / polychloroprene gloves (EN ISO 374).

Protective nitrile gloves (EN ISO 374).

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

Minimum layer thickness in mm:

> 0,35

Permeation time (penetration time) in minutes:

> 240 - 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).



Page 9 of 22

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

Revision date / version: 04.06.2024 / 0009

Replacing version dated / version: 22.05.2024 / 0008

Valid from: 04.06.2024 PDF print date: 04.06.2024

Octane Booster

Respiratory protection:

If OES or MEL is exceeded.

Gas mask filter A (EN 14387), code colour brown

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 manufacturer.

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

There is no information available on this parameter.

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Yellow, Clear Colour: Characteristic Odour:

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.

>61 °C Flash point: Auto-ignition temperature: There is no information available on this parameter.

Decomposition temperature:

pH: n.a. Kinematic viscosity: <7 mm2/s (40°C)

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: 0,8108 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: Product is not explosive.

Oxidising liquids:

SECTION 10: Stability and reactivity

10.1 Reactivity

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

Heating, open flame, ignition sources

10.5 Incompatible materials

Avoid contact with strong alkalis.

Avoid contact with strong oxidizing agents.

Avoid contact with strong acids.



Œ

Page 10 of 22

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

Revision date / version: 04.06.2024 / 0009

Replacing version dated / version: 22.05.2024 / 0008

Valid from: 04.06.2024 PDF print date: 04.06.2024

Octane Booster

10.6 Hazardous decomposition products

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 Booster						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by dermal route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by inhalation:	ATE	>20	mg/l/4h			calculated value,
						Vapours
Acute toxicity, by inhalation:	ATE	>1-1,24	mg/l/4h			calculated value,
						Aerosol
Skin corrosion/irritation:						Repeated
						exposure may
						cause skin
						dryness or
						cracking.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						negative, the
						real
						Naphthalene
						content is <1%
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:		<u> </u>				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
<i>3. 3</i>					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,
, G					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,
5 ,					Erythrocyte	Analogous
					Micronucleus Test)	conclusion



Page 11 of 22

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 04.06.2024 / 0009

Replacing version dated / version: 22.05.2024 / 0008 Valid from: 04.06.2024

PDF print date: 04.06.2024

		0500 454 (0	T
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
Specific target organ toxicity -		OECD 408 (Repeated	Negative,
repeated exposure (STOT-RE):		Dose 90-Day Oral	Analogous
		Toxicity Study in	conclusion
		Rodents)	
Aspiration hazard:		,	Yes
Symptoms:			unconsciousness
			, headaches,
			dizziness,
			mucous
			membrane
			irritation

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5000	mg/m3/8h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant, Analogous conclusion
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant, Analogous conclusion
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact), Analogous conclusion
Germ cell mutagenicity:				Mouse	in vivo	Negative
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative, Analogous conclusion
Carcinogenicity:					OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Analogous conclusion, Negative
Reproductive toxicity:					OECD 414 (Prenatal Developmental Toxicity Study)	Analogous conclusion, Negative
Specific target organ toxicity - single exposure (STOT-SE):						Analogous conclusion, No indications of such an effect.



Page 12 of 22

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 04.06.2024 / 0009

Replacing version dated / version: 22.05.2024 / 0008

Valid from: 04.06.2024 PDF print date: 04.06.2024

Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	>=1000	mg/kg bw/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
Aspiration hazard:						Yes
Symptoms:						drying of the skin., headaches, fatigue, dizziness, nausea, diarrhoea, vomiting

Bornan-2-one						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>10000	mg/m3	Rat	OECD 403 (Acute Inhalation Toxicity)	Dust(~2h)
Acute toxicity, by inhalation:	ATE	11	mg/l/4h		•	Vapours
Acute toxicity, by inhalation:	ATE	1,5	mg/l/4h			Dusts or mist
Skin corrosion/irritation:					OECD 439 (In Vitro Skin Irritation - Reconstructed Human Epidermis Test Method)	Skin Irrit. 2
Serious eye damage/irritation:					OECD 437 (Bovine Corneal Opacity + Permeability Test for Identif. Ocular Corros. + Severe Irritants)	Eye Dam. 1
Respiratory or skin sensitisation:						Not sensitizisino
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test)	Negative
Specific target organ toxicity - single exposure (STOT-SE), inhalative:						STOT SE 2

Hydrocarbons, C10, aromatics, >1% naphthalene							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)		
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 420 (Acute Oral toxicity - Fixe Dose Procedure)		
Acute toxicity, by oral route:	LD50	6318	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	Analogous conclusion	
Acute toxicity, by inhalation:	LC50	>4688	mg/m3	Rat	OECD 403 (Acute Inhalation Toxicity)		



Page 13 of 22

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 04.06.2024 / 0009

Replacing version dated / version: 22.05.2024 / 0008 Valid from: 04.06.2024

PDF print date: 04.06.2024

Skin corrosion/irritation:						Repeated
						exposure may cause skin
						dryness or
						cracking.
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant,
					Dermal	Analogous
					Irritation/Corrosion)	conclusion
erious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant,
					Irritation/Corrosion)	Analogous
Respiratory or skin				Cuinos pia	OECD 406 (Skin	conclusion No (skin
sensitisation:				Guinea pig	Sensitisation)	contact),
Serisiusation.					Serisitisation)	Analogous
						conclusion
Germ cell mutagenicity:				Mammalian	OECD 479 (Genetic	Negative,
5 ,					Toxicology - In Vitro	Analogous
					Sister Chromatid	conclusion
					Exchange assay in	
					Mammalian Cells)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative,
				typhimurium	Reverse Mutation Test)	Analogous
Germ cell mutagenicity:	-				OECD 473 (In Vitro	conclusion
Germ cen mutagenicity:					OECD 473 (In Vitro Mammalian	Negative, Analogous
					Chromosome	conclusionChine
					Aberration Test)	e hamster
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian	Negative
Com Con Matagornony.				Modeo	Erythrocyte	rtogativo
					Micronucleus Test)	
Germ cell mutagenicity:				Mammalian	OECD 475 (Mammalian	Negative,
					Bone Marrow	Analogous
					Chromosome	conclusion
					Aberration Test)	
Reproductive toxicity:					OECD 414 (Prenatal	Negative,
					Developmental Toxicity	Analogous conclusion
Reproductive toxicity:					Study) OECD 416 (Two-	Negative,
Reproductive toxicity.					generation	Analogous
					Reproduction Toxicity	conclusion
					Study)	001101001011
Reproductive toxicity	NOAEL	>450	mg/kg	Rat	OECD 415 (One-	Negative,
(Developmental toxicity):					Generation `	Analogous
					Reproduction Toxicity	conclusion
					Study)	
Reproductive toxicity (Effects				Rat	OECD 415 (One-	Negative,
on fertility):					Generation	Analogous
					Reproduction Toxicity	conclusion
Specific target organ toxicity -	-				Study)	Vapours may
single exposure (STOT-SE):						cause
						drowsiness and
						dizziness.,
						STOT SE 3,
						H336
Specific target organ toxicity -					OECD 452 (Chronic	Negative,
repeated exposure (STOT-RE):					Toxicity Studies)	Analogous
0 10 1	NC 1 E:	750		15.	0500 (00 (0	conclusion
Specific target organ toxicity -	NOAEL	750	mg/kg	Rat	OECD 408 (Repeated	Negative,
repeated exposure (STOT-RE),					Dose 90-Day Oral Toxicity Study in	Analogous conclusion
oral:						



Page 14 of 22

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 04.06.2024 / 0009

Replacing version dated / version: 22.05.2024 / 0008 Valid from: 04.06.2024

PDF print date: 04.06.2024

Specific target organ toxicity -	NOAEL	495	mg/kg	Rat	OECD 411 (Subchronic	Negative,
repeated exposure (STOT-RE),					Dermal Toxicity - 90-day	Analogous
dermal:					Study)	conclusion
Specific target organ toxicity -	NOAEL	1000	mg/m3	Rat	OECD 413 (Subchronic	Negative,
repeated exposure (STOT-RE),					Inhalation Toxicity - 90-	Analogous
inhalat.:					Day Study)	conclusion
Aspiration hazard:						Yes
Symptoms:						drowsiness,
						headaches,
						drowsiness,
						dizziness

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 Dermal	Not irritant
					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)	

Naphthalene							
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 Inhalation Toxicity)	Vapours	
Respiratory or skin sensitisation:				Guinea pig		No (skin contact)	
Reproductive toxicity:	NOAEL	120	mg/kg	Rabbit	OECD 414 (Prenatal Developmental Toxicity Study)	Female	
Reproductive toxicity:	LOAEL	50	mg/kg	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Female	
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	LOAEL	400	mg/kg	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)		
Specific target organ toxicity - repeated exposure (STOT-RE), dermal:	NOAEL	1000	mg/kg	Rat	OECD 411 (Subchronic Dermal Toxicity - 90-day Study)		
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	LOAEL	0,011	mg/l	Rat	OECD 413 (Subchronic Inhalation Toxicity - 90- Day Study)	Vapours	



Page 15 of 22

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 04.06.2024 / 0009

Replacing version dated / version: 22.05.2024 / 0008

Valid from: 04.06.2024 PDF print date: 04.06.2024

Octane Booster

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
	1		2,22, .22401104

11.2. Information on other hazards

Octane Booster						
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,	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).

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 degradability:							n.d.a.
12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.
12.6. Endocrine disrupting properties:							Does not apply to mixtures.
12.7. Other adverse							No information
effects:							available on
							other adverse
							effects on the
							environment.



Page 16 of 22

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 04.06.2024 / 0009

Replacing version dated / version: 22.05.2024 $\,$ / 0008

Valid from: 04.06.2024 PDF print date: 04.06.2024

Other information:	AOX		According to the recipe, contains no AOX.
Other information:	DOC		DOC-elimination degree(complexi ng organic substance)>= 80%/28d: No

Hydrocarbons, C10-C13,	, n-alkanes, isc	alkanes, cy	clics, <2% a	romatics			
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 on the water surface.

Hydrocarbons, C11-C14,	, n-alkanes, isc	alkanes, cy	clics, <2% a	romatics			
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOELR	28d	0,17	mg/l	Oncorhynchus mykiss	QSAR	
12.1. Toxicity to fish:	LL50	96h	>1000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	NOELR	21d	1,22	mg/l	Daphnia magna	QSAR	
12.1. Toxicity to daphnia:	EL50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOELR	72h	1000	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	69	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		6-8				High



Page 17 of 22

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 04.06.2024 / 0009

Replacing version dated / version: 22.05.2024 / 0008 Valid from: 04.06.2024

PDF print date: 04.06.2024

12.5. Results of PBT and vPvB assessment				No PBT substance, No vPvB substance
Water solubility:				Insoluble

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	33,25	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	LC50	48h	4,23	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	1,71	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,032	mg/l	Pseudokirchneriell a subcapitata	OEĆD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	77	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	
12.3. Bioaccumulative potential:	Log Pow		2,414				
Toxicity to bacteria:	EC50	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

Hydrocarbons, C10, arou							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	2-5	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,48	mg/l	Daphnia magna		Analogous conclusion
12.1. Toxicity to daphnia:	EC50	48h	3-10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOELR	72h	2,5	mg/l	Pseudokirchneriell a subcapitata		
12.1. Toxicity to algae:	EC50	72h	1-3	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	58	%	activated sludge	OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable, Analogous conclusion
12.3. Bioaccumulative potential:	Log Pow		2,8-6,5				High
12.3. Bioaccumulative potential:	BCF		<100				Low



Page 18 of 22

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 04.06.2024 / 0009

Replacing version dated / version: 22.05.2024 / 0008

Valid from: 04.06.2024 PDF print date: 04.06.2024

Octane Booster

12.5. Results of PBT				No PBT
and vPvB assessment				substance, No
				vPvB substance

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		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

Naphthalene Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	1,99	mg/l	Pimephales promelas	rest method	Does not 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 degradability:		28d	2	%			Not readily 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



Page 19 of 22

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

Revision date / version: 04.06.2024 / 0009

Replacing version dated / version: 22.05.2024 / 0008

Valid from: 04.06.2024 PDF print date: 04.06.2024

Octane Booster

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)

13 07 03 other fuels (including mixtures)

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

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: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):Not applicable14.4. Packing group:Not applicable14.5. Environmental hazards:Not applicableTunnel restriction code:Not applicableClassification code:Not applicableLQ:Not applicableTransport category:Not applicable

Transport by sea (IMDG-code)

14.1. UN number or ID number:

Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):Not applicable14.4. Packing group:Not applicable14.5. Environmental hazards:Not applicableMarine Pollutant:Not applicableEmS:Not applicable

Transport by air (IATA)

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):Not applicable14.4. Packing group:Not applicable14.5. Environmental hazards:Not applicable

14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

14.7. Maritime transport in bulk according to IMO instruments

Non-dangerous material according to Transport Regulations.

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 maternity protection (national implementation of the Directive 92/85/EEC)! Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

90,43 %



Page 20 of 22

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

Revision date / version: 04.06.2024 / 0009

Replacing version dated / version: 22.05.2024 / 0008

Valid from: 04.06.2024 PDF print date: 04.06.2024

Octane Booster

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, 4, 8, 11, 12, 16

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	Evaluation method used		
(EC) No. 1272/2008 (CLP)			
Acute Tox. 4, H332	Classification based on toxicological analyses.		
Eye Dam. 1, H318	Classification according to calculation procedure.		
Asp. Tox. 1, H304	Classification according to calculation procedure.		
Aquatic Chronic 3, H412	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.

H371 May cause damage to organs by inhalation.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H332 Harmful 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.

H228 Flammable solid.

EUH066 Repeated exposure may cause skin dryness or cracking.

Acute Tox. — Acute toxicity - inhalation

Eye Dam. — Serious eye damage

Asp. Tox. — Aspiration hazard

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Flam. Sol. — Flammable solid

Skin Irrit. — Skin irritation STOT SE — Specific target organ toxicity - single exposure

Carc. — Carcinogenicity

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

Acute Tox. — Acute toxicity - dermal Acute Tox. — Acute toxicity - oral

Aguatic Acute — Hazardous to the aguatic environment - acute

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).



Page 21 of 22

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

Revision date / version: 04.06.2024 / 0009

Replacing version dated / version: 22.05.2024 / 0008

Valid from: 04.06.2024 PDF print date: 04.06.2024

Octane Booster

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

amended.

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:

acc., acc. to according, according 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

BAM Bundesanstalt für Materialforschung und -prüfung (= Federal Institute for Materials Research and Testing, Germany)

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)

EC 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

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

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

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

etc. et cetera

EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number

gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

Koc Adsorption coefficient of organic carbon in the soil

Kow octanol-water partition coefficient

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

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database

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



Page 22 of 22

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

Revision date / version: 04.06.2024 / 0009

Replacing version dated / version: 22.05.2024 / 0008

Valid from: 04.06.2024 PDF print date: 04.06.2024

Octane Booster

n.a. not applicable not available n.av. 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

organic org.

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

ΡF Polyethylene

PNEC Predicted No Effect Concentration

parts per million ppm

PVC Polyvinylchloride

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

Evaluation, Authorisation and Restriction of Chemicals)

6/7/8/9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical REACH-IT List-No. identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-

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

SVHC Substances of Very High Concern

Telephone Tel.

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 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.