Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.03.2021 Version number 1.1 Revision: 18.03.2021

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

· **Product identifier**

· **Trade name: PROFI-CAR OCTAN-BOOSTER, OKTAN-BOOSTER**
(UFI:0V8C-M59V-T000-W8SM)

· **Article number:** 60042
· **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
· **Application of the substance / the mixture** Additive

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
PROFI-TECH GmbH
Otto-Lilienthal-Straße 2
88046 Friedrichshafen
Deutschland +49 7541 402860
· Emergency telephone number:
24-hour emergency contact number out side USA/Canada: + 49 70024112112 (PRT)
24-hour emergency contact number in side USA/Canada: +11 49 70024112112 (PRT)

2 Hazards identification

· **Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**


flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.


health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.


environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.

· **Label elements**
· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
· **Hazard pictograms**


GHS02 GHS07 GHS08 GHS09

(Contd. on page 2)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.03.2021 Version number 1.1 Revision: 18.03.2021

Trade name: PROFI-CAR OCTAN-BOOSTER, OKTAN-BOOSTER

(Contd. of page 1)

· **Signal word** Danger

· **Hazard-determining components of labelling:**
Naphtha (petroleum), hydrotreated light
Hydrocarbons, C6-7, n-Alkane, Iso-Alkane, cyclics, <5%n-Hexan

· **Hazard statements**
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P321	Specific treatment (see on this label).
P331	Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Mixtures**
· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43-XXXX	ethanol Flam. Liq. 2, H225; Eye Irrit. 2, H319	>25–≤50%
CAS: 1634-04-4 EINECS: 216-653-1 Index number: 603-181-00-X Reg.nr.: 01-2119452786-27-XXXX	tert-butyl methyl ether Flam. Liq. 2, H225; Skin Irrit. 2, H315	>10–≤25%
EC number: 927-510-4 Index number: 649-328-00-1 Reg.nr.: 01-2119475515-33-XXXX	Naphtha (petroleum), hydrotreated light Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336, EUH208	>10–<20%

(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.03.2021 Version number 1.1 Revision: 18.03.2021

Trade name: PROFI-CAR OCTAN-BOOSTER, OKTAN-BOOSTER

(Contd. of page 2)

EC number: 921-024-6 Reg.nr.: 01-2119475514-35-XXXX	Hydrocarbons, C6-7, n-Alkane, Iso-Alkane, cyclics, <5%n-Hexan Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336, EUH208	>10–<20%
EC number: 919-284-0 Reg.nr.: 01-2119463588-24-XXXX	HYDROCARBONS, C10, aromatics, <1% naphtalene [Solvent naphtha (petroleum), heacy arom.] Aquatic Chronic 2, H411; STOT SE 3, H336	≥0.25–<2.5%
CAS: 104-76-7 EINECS: 203-234-3 Reg.nr.: 01-2119487289-20-XXXX	2-Ethyl-1-hexanol Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	≥0–≤2.5%
CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3 Reg.nr.: 01-2119457290-43-XXXX	butanone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	≤2.5%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25-XXXX	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	≤2.5%
CAS: 67-56-1 EINECS: 200-659-6 Index number: 603-001-00-X Reg.nr.: 01-2119433307-44	methanol Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370 Specific concentration limits: STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %	≤2.5%
CAS: 64742-47-8 EINECS: 265-149-8 Index number: 649-422-00-2 Reg.nr.: 01-2119484819-18-XXXX	Distillates (petroleum), hydrotreated light Asp. Tox. 1, H304, EUH066	≤2.5%
CAS: 64742-94-5 EINECS: 265-198-5 Index number: 649-424-00-3 Reg.nr.: 01-2119463583-34-XXXX	Solvent naphtha (petroleum), heavy arom. Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	<0.25%
CAS: 95-63-6 EINECS: 202-436-9 Index number: 601-043-00-3	1,2,4-trimethylbenzene Flam. Liq. 3, H226; Aquatic Chronic 2, H411; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	<0.25%
CAS: 91-20-3 EINECS: 202-049-5 Index number: 601-052-00-2	naphthalene Carc. 2, H351; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	<0.025%

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**	
aliphatic hydrocarbons	≥15 - <30%
ALCOHOL, ISOPROPYL ALCOHOL	

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.03.2021 Version number 1.1 Revision: 18.03.2021

Trade name: PROFI-CAR OCTAN-BOOSTER, OKTAN-BOOSTER

(Contd. of page 3)

4 First aid measures

· **Description of first aid measures**
· **General information:** Immediately remove any clothing soiled by the product.
· **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing:** If symptoms persist consult doctor.
· **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

· **Precautions for safe handling** No special precautions are necessary if used correctly.
· **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** Store in a cool location.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
· **Storage class:** 3

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.03.2021 Version number 1.1 Revision: 18.03.2021

Trade name: PROFI-CAR OCTAN-BOOSTER, OKTAN-BOOSTER

(Contd. of page 4)

· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

64-17-5 ethanol

WEL	Long-term value: 1920 mg/m³, 1000 ppm

1634-04-4 tert-butyl methyl ether

WEL	Short-term value: 367 mg/m³, 100 ppm Long-term value: 183.5 mg/m³, 50 ppm

78-93-3 butanone

WEL	Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV

67-56-1 methanol

WEL	Short-term value: 333 mg/m³, 250 ppm Long-term value: 266 mg/m³, 200 ppm Sk

· **DNELs**

1634-04-4 tert-butyl methyl ether

Oral	Long Term Systemic Effects	7.1 mg/kg bw/day (Consuments)
Dermal	Long Term Systemic Effects	3,570 mg/kg bw/day (Consuments)
		5,100 mg/kg bw/day (Workers)
Inhalative	Akute Local Effects	214 mg/m³ (Consuments)
		357 mg/m³ (Workers)
	Long Term Systemic Effects	53.6 mg/m³ (Consuments)
		178.5 mg/m³ (Workers)

Naphtha (petroleum), hydrotreated light

Oral	Long Term Systemic Effects	149 mg/kg bw/day (Consuments)
Dermal	Long Term Systemic Effects	149 mg/kg bw/day (Consuments)
		300 mg/kg bw/day (Workers)
Inhalative	Long Term Systemic Effects	447 mg/m³ (Consuments)
		2,085 mg/m³ (Workers)

Hydrocarbons, C6-7, n-Alkane, Iso-Alkane, cyclics, <5%n-Hexan

Oral	Long Term Systemic Effects	699 mg/kg bw/day (Consuments)
Dermal	Long Term Systemic Effects	699 mg/kg bw/day (Consuments)
		773 mg/kg bw/day (Workers)
Inhalative	Long Term Systemic Effects	608 mg/m³ (Consuments)
		2,035 mg/m³ (Workers)

HYDROCARBONS, C10, aromatics, <1% naphtalene [Solvent naphtha (petroleum), heacy arom.]

Oral	Long Term Systemic Effects	7.5 mg/kg bw/day (Consuments)
Dermal	Long Term Systemic Effects	7.5 mg/kg bw/day (Consuments)
		12.5 mg/kg bw/day (Workers)
Inhalative	Long Term Systemic Effects	32 mg/m³ (Consuments)
		151 mg/m³ (Workers)

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.03.2021 Version number 1.1 Revision: 18.03.2021

Trade name: PROFI-CAR OCTAN-BOOSTER, OKTAN-BOOSTER

(Contd. of page 5)

104-76-7 2-Ethyl-1-hexanol		
Oral	Long Term Systemic Effects	1.1 mg/kg bw/day (Consuments)
Dermal	Long Term Systemic Effects	11.4 mg/kg bw/day (Consuments)
		23 mg/kg bw/day (Workers)
Inhalative	Akute Local Effects	53.2 mg/m³ (Consuments)
		106.4 mg/m³ (Workers)
	Long Term Local Effects	26.6 mg/m³ (Consuments)
	Long Term Systemic Effects	2.3 mg/m³ (Consuments)
		53.2 mg/m³ (Workers)
67-63-0 propan-2-ol		
Oral	Long Term Systemic Effects	26 mg/kg bw/day (Consuments)
Dermal	Long Term Systemic Effects	319 mg/kg bw/day (Consuments)
		888 mg/kg bw/day (Workers)
Inhalative	Long Term Systemic Effects	89 mg/m³ (Consuments)
		500 mg/m³ (Workers)
67-56-1 methanol		
Oral	Acute Systemic Effects	8 mg/kg bw/day (Consuments)
	Long Term Systemic Effects	8 mg/kg bw/day (Consuments)
Dermal	Acute Lokal Effects	mg/kg bw/day (Consuments)
	Acute Systemic Effects	8 mg/kg bw/day (Consuments)
		40 mg/kg bw/day (Workers)
	Long Term Local Effects	mg/kg bw/day (Consuments)
	Long Term Systemic Effects	8 mg/kg bw/day (Consuments)
		40 mg/kg bw/day (Workers)
Inhalative	Akute Local Effects	50 mg/m³ (Consuments)
		260 mg/m³ (Workers)
	Acute Systemic Effects	50 mg/m³ (Consuments)
		260 mg/m³ (Workers)
	Long Term Local Effects	50 mg/m³ (Consuments)
		260 mg/m³ (Workers)
	Long Term Systemic Effects	50 mg/m³ (Consuments)
		260 mg/m³ (Workers)
64742-94-5 Solvent naphtha (petroleum), heavy arom.		
Oral	Long Term Systemic Effects	7.5 mg/kg bw/day (Consuments)
Dermal	Long Term Systemic Effects	7.5 mg/kg bw/day (Consuments)
		12.5 mg/kg bw/day (Workers)
Inhalative	Long Term Systemic Effects	32 mg/m³ (Consuments)
		151 mg/m³ (Workers)
95-63-6 1,2,4-trimethylbenzene		
Oral	Long Term Systemic Effects	15 mg/kg bw/day (Consuments)
Dermal	Long Term Systemic Effects	9,512 mg/kg bw/day (Consuments)
		16,171 mg/kg bw/day (Workers)
Inhalative	Akute Local Effects	29.4 mg/m³ (Consuments)
		100 mg/m³ (Workers)
	Acute Systemic Effects	29.4 mg/m³ (Consuments)
		100 mg/m³ (Workers)
	Long Term Local Effects	29.4 mg/m³ (Consuments)

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.03.2021 Version number 1.1 Revision: 18.03.2021

Trade name: PROFI-CAR OCTAN-BOOSTER, OKTAN-BOOSTER

(Contd. of page 6)

	Long Term Systemic Effects	100 mg/m³ (Workers) 29.4 mg/m³ (Consuments) 100 mg/m³ (Workers)
91-20-3 naphthalene		
Dermal	Long Term Systemic Effects	3.57 mg/kg bw/day (Workers)
Inhalative	Akute Local Effects	25 mg/m³ (Workers)
	Long Term Systemic Effects	25 mg/m³ (Workers)

· **PNECs**

104-76-7 2-Ethyl-1-hexanol		
Oral	Secondary Poisoning	55 mg/kg food (secondary poisoning)
	Fresh Water	0.017 mg/l (Fresh Water)
	Marine Water	0.0017 mg/l (Marine Water)
	Fresh Water Sediments	0.28 mg/kg (Fresh Water Sediments)
	Marine Water Sediments	0.028 mg/kg (Marine Water Sediments)
	Microorganismus in Sewage Treatment	10 mg/l (Microorganismus in Sewage Treatment)
	Soil (Agricultural)	0.047 mg/kg (Soil (Agricultural))
67-63-0 propan-2-ol		
	Fresh Water	140.9 mg/l (Fresh Water)
	Marine Water	140.9 mg/l (Marine Water)
	Fresh Water Sediments	552 mg/kg (Fresh Water Sediments)
	Marine Water Sediments	552 mg/kg (Marine Water Sediments)
	Microorganismus in Sewage Treatment	2,251 mg/l (Microorganismus in Sewage Treatment)
	Soil (Agricultural)	28 mg/kg (Soil (Agricultural))
67-56-1 methanol		
	Fresh Water	20.8 mg/l (Fresh Water)
	Marine Water	2.08 mg/l (Marine Water)
	Fresh Water Sediments	77 mg/kg (Fresh Water Sediments)
	Marine Water Sediments	7.7 mg/kg (Marine Water Sediments)
	Microorganismus in Sewage Treatment	100 mg/l (Microorganismus in Sewage Treatment)
	Soil (Agricultural)	100 mg/kg (Soil (Agricultural))
95-63-6 1,2,4-trimethylbenzene		
	Fresh Water	0.12 mg/l (Fresh Water)
	Marine Water	0.12 mg/l (Marine Water)
	Fresh Water Sediments	13.56 mg/kg (Fresh Water Sediments)
	Marine Water Sediments	13.56 mg/kg (Marine Water Sediments)
	Microorganismus in Sewage Treatment	2.41 mg/l (Microorganismus in Sewage Treatment)
91-20-3 naphthalene		
	Fresh Water	0.0024 mg/l (Fresh Water)
	Marine Water	0.0024 mg/l (Marine Water)
	Fresh Water Sediments	0.0672 mg/kg (Fresh Water Sediments)
	Marine Water Sediments	0.0672 mg/kg (Marine Water Sediments)
	Microorganismus in Sewage Treatment	2.9 mg/l (Microorganismus in Sewage Treatment)
	Soil (Agricultural)	0.0533 mg/kg (Soil (Agricultural))

· **Ingredients with biological limit values:**

78-93-3 butanone	
BMGV	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one

(Contd. on page 8)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.03.2021 Version number 1.1 Revision: 18.03.2021

Trade name: PROFI-CAR OCTAN-BOOSTER, OKTAN-BOOSTER

(Contd. of page 7)

· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**
· **Appropriate engineering controls** No further data; see item 7.
· **Individual protection measures, such as personal protective equipment**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
· **Respiratory protection:** Not required.
· **Hand protection**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **For the permanent contact gloves made of the following materials are suitable:**
Nitrile rubber, NBR
· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
Neoprene gloves
· **Eye/face protection**

Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**
· **General Information**

· **Physical state**	Fluid
· **Colour:**	Not determined.
· **Odour:**	Characteristic
· **Odour threshold:**	Not determined.
· **Melting point/freezing point:**	-109 °C
· **Boiling point or initial boiling point and boiling range**	55–110 °C
· **Flammability**	Not applicable.
· **Lower and upper explosion limit**	
· **Lower:**	1.6 Vol %
· **Upper:**	8.4 Vol %

(Contd. on page 9)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.03.2021 Version number 1.1 Revision: 18.03.2021

Trade name: PROFI-CAR OCTAN-BOOSTER, OKTAN-BOOSTER

(Contd. of page 8)

· **Flash point:**	-18 °C
· **Auto-ignition temperature:**	Product is not selfigniting.
· **Decomposition temperature:**	Not determined.
· **pH**	Not determined.
· **Viscosity:**	
· **Kinematic viscosity at 20 °C**	1.1 mm²/s
· **Dynamic:**	Not determined.
· **Solubility**	
· **water:**	Not miscible or difficult to mix.
· **Partition coefficient n-octanol/water (log value)**	Not determined.
· **Vapour pressure at 20 °C:**	59 hPa (64-17-5 ethanol)
· **Density and/or relative density**	
· **Density at 20 °C:**	0.76 g/cm³
· **Relative density**	Not determined.
· **Vapour density**	Not determined.

· **Other information**	
· **Appearance:**	
· **Form:**	Fluid
· **Important information on protection of health and environment, and on safety.**	
· **Explosive properties:**	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· **Solvent content:**	
· **Organic solvents:**	96.3–<98.9 %
· **VOC (EC)**	96.34–<98.94 %
· **Change in condition**	
· **Evaporation rate**	Not determined.

· **Information with regard to physical hazard classes**	
· **Explosives**	Void
· **Flammable gases**	Void
· **Aerosols**	Void
· **Oxidising gases**	Void
· **Gases under pressure**	Void
· **Flammable liquids**	Highly flammable liquid and vapour.
· **Flammable solids**	Void
· **Self-reactive substances and mixtures**	Void
· **Pyrophoric liquids**	Void
· **Pyrophoric solids**	Void
· **Self-heating substances and mixtures**	Void
· **Substances and mixtures, which emit flammable gases in contact with water**	Void
· **Oxidising liquids**	Void
· **Oxidising solids**	Void
· **Organic peroxides**	Void
· **Corrosive to metals**	Void
· **Desensitised explosives**	Void

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.

(Contd. on page 10)

Safety data sheet
according to 1907/2006/EC, Article 31

(Contd. of page 9)

· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on hazard classes as defined in Regulation (EC) No 1272/2008**
· **Acute toxicity**

· **LD/LC50 values relevant for classification:**		
ATE (Acute Toxicity Estimates)		
Inhalative	LC50/4 h	>1,364 mg/kg (rat)

64-17-5 ethanol		
Oral	LD50	10,470 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	51 mg/kg (rat)
1634-04-4 tert-butyl methyl ether		
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	85 mg/kg (rat)
Naphtha (petroleum), hydrotreated light		
Oral	LD50	>5,840 mg/kg (rat)
Dermal	LD50	>2,800–3,100 mg/kg (rat)
Inhalative	LC50/4 h	>23.3 mg/kg /4h (rat)
Hydrocarbons, C6-7, n-Alkane, Iso-Alkane, cyclics, <5%n-Hexan		
Oral	LD50	>5,840 mg/kg (rat)
Dermal	LD50	3,100 mg/kg (rat)
Inhalative	LC50/4 h	25.2 mg/kg /4h (rat)
104-76-7 2-Ethyl-1-hexanol		
Oral	LD50	2,049 mg/kg (rat)
Dermal	LD50	1,970 mg/kg (rabbit)
78-93-3 butanone		
Oral	LD50	>2,193 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	34 mg/kg (rat)
67-63-0 propan-2-ol		
Oral	LD50	5,840 mg/kg (rat)
Dermal	LD50	13,900 mg/kg (rabbit)
Inhalative	LC50/6h	>25 mg/l (rat)
67-56-1 methanol		
Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)
	LC50 (Dampf), 4h	3 mg/l (rat)
64742-47-8 Distillates (petroleum), hydrotreated light		
Dermal	LD50	>5,000 mg/kg (rab)
Inhalative	LC50 8h	>5,000 mg/m³ (rat)
64742-94-5 Solvent naphtha (petroleum), heavy arom.		
Dermal	LD50	2,000 mg/kg (rabbit)

(Contd. on page 11)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.03.2021 Version number 1.1 Revision: 18.03.2021

Trade name: PROFI-CAR OCTAN-BOOSTER, OKTAN-BOOSTER

(Contd. of page 10)

Inhalative	LC50/4 h	>590 mg/kg (rat)
95-63-6 1,2,4-trimethylbenzene		
Oral	LD50	>5,000 mg/kg (rat)
91-20-3 naphthalene		
Oral	LD50	490 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rat)
	LC50 (Dampf), 4h	>0.41 mg/l (rat)

· **Skin corrosion/irritation** Causes skin irritation.
· **Serious eye damage/irritation** Causes serious eye irritation.
· **Aspiration hazard** May be fatal if swallowed and enters airways.
· **Information on other hazards**

· **Endocrine disrupting properties**		
1634-04-4	tert-butyl methyl ether	List II
78-93-3	butanone	List II

*
12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**	
64-17-5 ethanol	
LC50 96h	15,300 mg/l (Fish)
	13,000 mg/l (Oncorhynchus mykiss)
EC50 48h	12,340 mg/l (daphnia)
log Kow	-0.3 /24°C, pH 7 (OECD 107)
BCF, no Bioakumulation	0.66
1634-04-4 tert-butyl methyl ether	
EC50 48h	651 mg/l (daphnia)
NOEC, 21d	51 mg/l (daphnia)
Naphtha (petroleum), hydrotreated light	
EL50 48h	3.2 mg/l (daphnia)
LL50 96h	13.4 mg/l (Oncorhynchus mykiss)
Hydrocarbons, C6-7, n-Alkane, Iso-Alkane, cyclics, <5%n-Hexan	
EC50 48h	0.64 mg/l (daphnia)
EL50 48h	3 mg/l (daphnia)
EL50 72h	30 mg/l (Pseudokirchneriella subcapitata)
LL50 72h	15.8 mg/l (Oncorhynchus mykiss)
78-93-3 butanone	
EC50 48h	308 mg/l (daphnia)
67-56-1 methanol	
LC50 96h	15,400 mg/l (Fish)
LC50 48h	>10,000 mg/l (daphnia)
ErC50, 96h	22,000 mg/l (Algae)
NOEC 200h	15,800 mg/l (Fish)
IC50 3h	>3,000 mg/l (Activated Sludge)
64742-94-5 Solvent naphtha (petroleum), heavy arom.	
EC50 48h	mg/l (rat)
EL50 48h	3–10 mg/l (daphnia)

(Contd. on page 12)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.03.2021 Version number 1.1 Revision: 18.03.2021

Trade name: PROFI-CAR OCTAN-BOOSTER, OKTAN-BOOSTER

(Contd. of page 11)

LL50 96h	2–5 mg/l (Pseudokirchneriella subcapitata)
EL50 72h	1–3 mg/l (Algae)
91-20-3 naphthalene	
LC50 96h	0.11 mg/l (Fish)
IC50 24h	29 mg/l (Bacteria)
ErC50 72h	0.4 mg/l (Algae)

· **Persistence and degradability** No further relevant information available.
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Endocrine disrupting properties**
For information on endocrine disrupting properties see section 11.
· **Other adverse effects**
· **Remark:** Toxic for fish
· **Additional ecological information:**
· **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**
· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN number or ID number**	
· **ADR, IMDG, IATA**	UN1993
· **UN proper shipping name**	
· **ADR**	1993 FLAMMABLE LIQUID, N.O.S. (METHYL tert-BUTYL ETHER, ETHANOL (ETHYL ALCOHOL)), ENVIRONMENTALLY HAZARDOUS
· **IMDG**	FLAMMABLE LIQUID, N.O.S. (METHYL tert-BUTYL ETHER, ETHANOL (ETHYL ALCOHOL)), MARINE POLLUTANT
· **IATA**	Flammable liquid, n.o.s. (METHYL tert-BUTYL ETHER, ETHANOL)

(Contd. on page 13)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.03.2021 Version number 1.1 Revision: 18.03.2021

Trade name: PROFI-CAR OCTAN-BOOSTER, OKTAN-BOOSTER

(Contd. of page 12)

· **Transport hazard class(es)**

· **ADR, IMDG**

· **Class**	3 Flammable liquids.
· **Label**	3

· **IATA**

· **Class**	3 Flammable liquids.
· **Label**	3
· **Packing group**	
· **ADR, IMDG, IATA**	II
· **Environmental hazards:**	Product contains environmentally hazardous substances: Naphtha (petroleum), hydrotreated light
· **Marine pollutant:**	Symbol (fish and tree)
· **Special marking (ADR):**	Symbol (fish and tree)
· **Special precautions for user**	Warning: Flammable liquids.
· **Hazard identification number (Kemler code):**	33
· **EMS Number:**	F-E,S-E
· **Stowage Category**	B
· **Maritime transport in bulk according to IMO instruments**	Not applicable.

· **Transport/Additional information:**

· **ADR**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **Transport category**	2
· **Tunnel restriction code**	D/E
· **IMDG**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **UN "Model Regulation":**	UN 1993 FLAMMABLE LIQUID, N.O.S. (METHYL TERT-BUTYL ETHER, ETHANOL (ETHYL ALCOHOL)), 3, II, ENVIRONMENTALLY HAZARDOUS

(Contd. on page 14)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.03.2021 Version number 1.1 Revision: 18.03.2021

Trade name: PROFI-CAR OCTAN-BOOSTER, OKTAN-BOOSTER

(Contd. of page 13)

15 Regulatory information

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

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Seveso category**
E2 Hazardous to the Aquatic Environment
P5c FLAMMABLE LIQUIDS
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H370 Causes damage to organs.
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.
EUH208 Contains . **May produce an allergic reaction.**
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Carc. 2: Carcinogenicity – Category 2
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

(Contd. on page 15)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.03.2021 *Version number 1.1* *Revision: 18.03.2021*

Trade name: PROFI-CAR OCTAN-BOOSTER, OKTAN-BOOSTER

(Contd. of page 14)

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
· **** Data compared to the previous version altered.***