

**Cetane Booster**

Revision date: 27.04.2018

Product code: 1314

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Cetane Booster

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

Increase the cetane number.

**1.3. Details of the supplier of the safety data sheet**

Company name:	CTP GmbH	
Street:	Saalfelder Strasse 35h	
Place:	D-07338 Leutenberg	
Telephone:	+49 (0)36734 230-0	Telefax: +49 (0)36734 230-22
e-mail:	msds@bluechemgroup.com	
Contact person:	Jens Moeller, Dipl.-Chem.	Telephone: +49 (0)36734 230-19
Internet:	www.bluechemgroup.com	

**1.4. Emergency telephone number:** GBK GmbH: +49-(0)6132-84463 (24/7)**Further Information**

Article Number: 33210, 33211, 33212, 33214, 33216

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Acute toxicity: Acute Tox. 4

Acute toxicity: Acute Tox. 4

Aspiration hazard: Asp. Tox. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Harmful if inhaled.

Harmful if swallowed.

May be fatal if swallowed and enters airways.

Toxic to aquatic life with long lasting effects.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

Hydrocarbons, C10-C13, n-Alkanes, Isoalkanes, Cyclics, &lt; 2% Aromatics

2-Ethyl hexyl nitrate

**Signal word:** Danger**Pictograms:****Hazard statements**

H302+H332

Harmful if swallowed or if inhaled.

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.

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P102	Keep out of reach of children.
P260	Do not breathe vapour/aerosole.
P270	Do not eat, drink or smoke when using this product.
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.
P331	Do NOT induce vomiting.
P312	Call a POISON CENTER/doctor if you feel unwell.
P405	Store locked up.
P501	Dispose of this material and its container to hazardous or special waste collection point.

**Special labelling of certain mixtures**

EUH044	Risk of explosion if heated under confinement.
EUH066	Repeated exposure may cause skin dryness or cracking.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**
**3.2. Mixtures**
**Chemical characterization**

 Petroleum (Gasoline)  
 Additives

**Hazardous components**

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
64742-48-9	Hydrocarbons, C10-C13, n-Alkanes, Isoalkanes, Cyclics, < 2% Aromatics	50 -< 70 %
	918-481-9	01-2119457273-39
	Asp. Tox. 1; H304 EUH066	
27247-96-7	2-Ethyl hexyl nitrate	20 -< 50 %
	248-363-6	01-2119539586-27
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Aquatic Chronic 2; H332 H312 H302 H411 EUH044 EUH066	

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**
**General information**

No special measures are necessary.

**After inhalation**

Move victim out of danger zone. Provide fresh air. Consult physician.

**After contact with skin**

After contact with skin, wash immediately with: Water and soap.

**After contact with eyes**

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult physician.

**After ingestion**

Do NOT induce vomiting. Consult physician.



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### **4.2. Most important symptoms and effects, both acute and delayed**

Frequently or prolonged contact with skin may cause dermal irritation.  
Irritation of eyes: Irritant effect possible.  
After ingestion: Harmful: may cause lung damage if swallowed.  
Harmful by inhalation.

### **4.3. Indication of any immediate medical attention and special treatment needed**

No information available.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Water spray. Sand. Foam. Carbon dioxide. dry extinguishing powder.

#### **Unsuitable extinguishing media**

High power water jet.

### **5.2. Special hazards arising from the substance or mixture**

No information available.

### **5.3. Advice for firefighters**

Use appropriate respiratory protection.

#### **Additional information**

Contaminated fire-fighting water must not get into the sewerage network.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Provide adequate ventilation.  
Avoid contact with skin and eyes.  
Do not breathe gas/fumes/vapour/spray.  
Take precautionary measures against static discharges.

### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

### **6.3. Methods and material for containment and cleaning up**

Suitable material for taking up: Sand Kieselguhr. Universal binding agent. Sawdust.

### **6.4. Reference to other sections**

No data

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Avoid formation of fumes/aerosols.  
Do not breathe gas/fumes/vapour/spray.  
Do not pierce, cut up or weld unclean container.

#### **Advice on protection against fire and explosion**

When hot, product develops flammable vapors.  
Keep away from sources of ignition - No smoking.  
Take precautionary measures against static discharges.  
Risk of explosion if heated under confinement.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Requirements for storage rooms and vessels**

Keep container tightly closed. Do not store at temperatures over: 50 °C  
Provide for good ventilation, when develop aerosols/mist.

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**7.3. Specific end use(s)**

No information available.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****8.2. Exposure controls****Appropriate engineering controls**

hydrocarbons.  
group 1  
200 ml/m<sup>3</sup> (ppm) 1000 mg/m<sup>3</sup>

**Protective and hygiene measures**

Avoid contact with skin, eyes and clothes.

**Eye/face protection**

Suitable eye protection: Wear tightly sealed safety glasses against possible splashes into the eyes.

**Hand protection**

Tested protective gloves are to be worn: NBR (Nitrile rubber).

**Skin protection**

Wear suitable solvent-proof protective clothing according to EN 465.

**Respiratory protection**

Respiratory protection: not required.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	colourless
Odour:	aromatic
<b>Changes in the physical state</b>	
Initial boiling point and boiling range:	180 - 220 °C
Flash point:	> 65 °C
Lower explosion limits:	0,73 vol. %
Upper explosion limits:	6 vol. %
Ignition temperature:	> 200 °C
Density (at 20 °C):	0,83 - 0,84 g/cm <sup>3</sup>
Water solubility:	insoluble

**9.2. Other information**

No data

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No information available.

**10.2. Chemical stability**

No decomposition when used as intended.

**10.3. Possibility of hazardous reactions**

No dangerous reactions are known.

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**10.4. Conditions to avoid**

No decomposition when used as intended.  
Only use the material in places where open light, fire and other flammable sources can be kept away.

**10.5. Incompatible materials**

Oxidizing agents.

**10.6. Hazardous decomposition products**

Hazardous decomposition products:  
Carbon monoxide.  
Carbon dioxide.  
Nitrogen oxides (NOx).

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**ATEmix calculated**

ATE (oral) 1250,0 mg/kg; ATE (inhalative aerosol) 3,750 mg/l

**Acute toxicity**

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-48-9	Hydrocarbons, C10-C13, n-Alkanes, Isoalkanes, Cyclics, < 2% Aromatics				
	oral	LD50 > 5000 mg/kg	Rat		
	dermal	LD50 > 5000 mg/kg	Rabbit		
	inhalative (4 h) gas	LC50 >5 ppm	Rat		
27247-96-7	2-Ethyl hexyl nitrate				
	oral	LD50 >9640 mg/kg	Rat		
	dermal	LD50 >4820 mg/kg	Rabbit		
	inhalative (1 h) vapour	LC50 4,6 mg/l	Rat		
	inhalative aerosol	ATE 1,5 mg/l			

**Irritation and corrosivity**

Irritant effect on the eye: irritant.  
Irritant effect on the skin: Frequently or prolonged contact with skin may cause dermal irritation.

**Carcinogenic/mutagenic/toxic effects for reproduction**

No Carcinogenic, germ cell mutagen and reproduction effects

**SECTION 12: Ecological information**

**12.1. Toxicity**

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
64742-48-9	Hydrocarbons, C10-C13, n-Alkanes, Isoalkanes, Cyclics, < 2% Aromatics					
	Acute fish toxicity	LC50 mg/l	1000	96 h	Oncorhynchus mykiss	
	Acute algae toxicity	ErC50 mg/l	1000	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50 mg/l	1000	48 h	Daphnia magna (Big water flea)	
27247-96-7	2-Ethyl hexyl nitrate					
	Acute fish toxicity	LC50	2 mg/l	96 h	Fish	
	Acute algae toxicity	ErC50 mg/l	1-10	72 h	Algae	
	Acute crustacea toxicity	EC50	>10 mg/l	48 h	Daphnia magna	

**12.2. Persistence and degradability**

Product is partially biodegradable.

**12.3. Bioaccumulative potential**

Low potential of bio-accumulation.

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

No information available.

**12.6. Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains.

**SECTION 13: Disposal considerations**
**13.1. Waste treatment methods**
**Advice on disposal**

Dispose of waste according to applicable legislation.

Carry out under observation of official regulations covering a chemical/physical treatment plant.

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Arrange about the exact waste code with the local waste disposal expert.

**Waste disposal number of waste from residues/unused products**

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

**Waste disposal number of used product**

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

**Contaminated packaging**

Do not dispose with household waste.

Do not allow to enter into surface water or drains.

Do not pierce, cut up or weld unclean container.

**SECTION 14: Transport information**
**Land transport (ADR/RID)**

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**14.1. UN number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
Hazard label: 9



Classification code: M6  
Special Provisions: 274 335 375 601  
Limited quantity: 5 L  
Excepted quantity: E1  
Transport category: 3  
Hazard No: 90  
Tunnel restriction code: -

**Inland waterways transport (ADN)**

**14.1. UN number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
Hazard label: 9



Classification code: M6  
Special Provisions: 274 335 375 601  
Limited quantity: 5 L  
Excepted quantity: E1

**Marine transport (IMDG)**

**14.1. UN number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
Hazard label: 9



Marine pollutant: P  
Special Provisions: 274, 335, 969  
Limited quantity: 5 L  
Excepted quantity: E1  
EmS: F-A, S-F

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III

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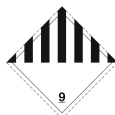
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Hazard label:

9



Special Provisions:

A97 A158 A197

Limited quantity Passenger:

30 kg G

Passenger LQ:

Y964

Excepted quantity:

E1

IATA-packing instructions - Passenger:

964

IATA-max. quantity - Passenger:

450 L

IATA-packing instructions - Cargo:

964

IATA-max. quantity - Cargo:

450 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS:

yes



Danger releasing substance:

2-Ethyl hexyl nitrate

**14.6. Special precautions for user**

No information available.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

No information available.

**SECTION 15: Regulatory information**

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

**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 28: Hydrocarbons, C10-C13, n-Alkanes, Isoalkanes, Cyclics, < 2% Aromatics

**Additional information**

Contains:

> 30 % hydrocarbons, aliphatic.

**National regulatory information**

Water contaminating class (D):

1 - slightly water contaminating

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information**

**Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

Classification	Classification procedure
Acute Tox. 4; H332	Calculation method
Acute Tox. 4; H302	Calculation method
Asp. Tox. 1; H304	Calculation method
Aquatic Chronic 2; H411	Calculation method

**Relevant H and EUH statements (number and full text)**

H302 Harmful if swallowed.  
H302+H332 Harmful if swallowed or if inhaled.  
H304 May be fatal if swallowed and enters airways.





## Safety Data Sheet

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GROUP

according to Regulation (EC) No 1907/2006

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H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.
EUH044	Risk of explosion if heated under confinement.
EUH066	Repeated exposure may cause skin dryness or cracking.

#### Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*