



Safety Data Sheet

bluechem 
GROUP

according to Regulation (EC) No 1907/2006

Octane Premium

Print date: 17.12.2015

Product code: 1689

Page 1 of 10

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

1.1. Product identifier

Octane Premium

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

Use of the substance/mixture

Increase the ROZ-octane number.

1.3. Details of the supplier of the safety data sheet

Company name:	CTP-GmbH	
Street:	Saalfelder Strasse 35	
Place:	D-07338 Leutenberg	
Telephone:	+4936734/230-0	Telefax: +4936734/230-22
e-mail:	hotline@ctp-gmbh.de	
Contact person:	Jens Moeller, Dipl.-Chem.	Telephone: +4936734/230-19
Internet:	www.ctp-gmbh.de	

1.4. Emergency telephone number:

For Germany: +49-361-730730 (24 hours/7 days)

Further Information

Article Number: 33280, 33289, 33285, 33281, 33282, 33283

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 3

Acute toxicity: Acute Tox. 4

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Carcinogenicity: Carc. 2

Specific target organ toxicity - single exposure: STOT SE 3

Specific target organ toxicity - repeated exposure: STOT RE 2

Aspiration hazard: Asp. Tox. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Flammable liquid and vapour.

Harmful if swallowed or if inhaled.

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure.

Toxic to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazardous components which must be listed on the label

xylene

tricarbonyl(methylcyclopentadienyl)manganese (MMT)

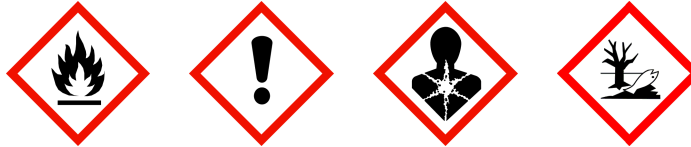
Hydrocarbons, C10, aromatics, >1% naphthalene

Octane Premium

Print date: 17.12.2015

Product code: 1689

Page 2 of 10

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

H226	Flammable liquid and vapour.
H302+H332	Harmful if swallowed or if inhaled.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
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.
P280	Wear protective gloves.
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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of this material and its container to hazardous or special waste collection point.

2.3. Other hazards

No information available.

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

Ignition improver

Octane Premium

Print date: 17.12.2015

Product code: 1689

Page 3 of 10

Hazardous components

CAS No	Chemical name	Quantity
	EC No	Index No
		REACH No
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
1330-20-7	xylene	85 - < 90 %
	215-535-7	02-2119752448-30
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H312 H332 H315 H319 H335 H373 H304	
12108-13-3	tricarbonyl(methylcyclopentadienyl)manganese (MMT)	5 - < 10 %
	235-166-5	
	Acute Tox. 1, Acute Tox. 2, Acute Tox. 3, Skin Irrit. 2, STOT RE 1, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1; H330 H310 H301 H315 H372 H400 H410	
64742-94-5	Hydrocarbons, C10, aromatics, >1% naphthalene	5 - < 10 %
	919-284-0	01-2119463588-24
	Carc. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H351 H336 H304 H411	

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Move victim to fresh air. Put victim at rest and keep warm.

After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

In case of difficulties of breathing consult physician.

If victim is at risk of losing consciousness, position and transport on their side.

After contact with skin

Take off immediately all contaminated clothing, including underwear and shoes.

After contact with skin, wash immediately with plenty of water and soap.

Rub greasy ointment into the skin.

After contact with eyes

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

Consult physician.

After ingestion

Let water be drunken in little sips (dilution effect). Consult physician.

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

Warning about danger of aspiration.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing powder.

Sand.

Octane Premium

Print date: 17.12.2015

Product code: 1689

Page 4 of 10

alcohol resistant foam.

Carbon dioxide (CO₂).**Unsuitable extinguishing media**

High power water jet.

5.2. Special hazards arising from the substance or mixture

Formation of decomposition products possible.

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

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Cool endangered container in case of fire.

Contaminated fire-fighting water must be collected separately.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

In case of fire: Wear self-contained breathing apparatus.

Keep away from sources of ignition. - No smoking.

6.2. Environmental precautions

Beat down gas/vapours/mist with water spray.

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Prevent spreading of spillages (e.g. by oil barrier).

Wipe up with absorbent material (eg. cloth, fleece).

6.4. Reference to other sections

No data

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Closed devices. Vapours / aerosols must be extracted by suction immediately at point of origin.

Avoid contact with skin and eyes.

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking.

Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

Further information on storage conditions

Packaging materials: metal.

7.3. Specific end use(s)

No information available.

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

Octane Premium

Print date: 17.12.2015

Product code: 1689

Page 5 of 10

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid	650 mmol/mol	urine	Post shift

8.2. Exposure controls**Protective and hygiene measures**

When using do not eat, drink or smoke.
Wash hands before breaks and after work.

Eye/face protection

Wear tightly sealed safety glasses against possible splashes into the eyes. (DIN EN 166)

Hand protection

Tested protective gloves are to be worn: Butyl rubber. (DIN EN 374)

Skin protection

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

Respiratory protection

In case of accumulation of fumes/aerosols, provide adequate ventilation.
In case of insufficient ventilation, wear suitable respiratory equipment.

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

Physical state: liquid
Colour: reddish brown
Odour: characteristic

Test method**Changes in the physical state**

Flash point: 24 °C
Density (at 15 °C): 0,87 - 0,89 g/cm³
Water solubility: insoluble
(at 20 °C)

Solubility in other solvents

Organic solvents

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.

Octane Premium

Print date: 17.12.2015

Product code: 1689

Page 6 of 10

10.3. Possibility of hazardous reactions

No dangerous reactions are known.

10.4. Conditions to avoid

Only use the material in places where open light, fire and other flammable sources can be kept away.

10.5. Incompatible materials

Oxidizing agents.
acid, concentrated.
Alkalis (alkalis), concentrated.

10.6. Hazardous decomposition products

Carbon monoxide (CO).
Carbon dioxide (CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

ATEmix tested

	Dose	Species	Source
LD50, oral	1000 mg/kg	Rat	
LD50, dermal	2958 mg/kg	Rabbit	
LC50, inhalative (vapour) (4 h)	14,79 mg/l	Rat	
LC50, inhalative (aerosol) (4 h)	1,17 mg/l	Rat	
LC50, inhalative (gas) (4 h)	7142 ppm	Rat	

Acute toxicity

CAS No	Chemical name	Exposure routes	Method	Dose	Species	Source
1330-20-7	xylene	oral	LD50	4300 mg/kg	Rat	
		dermal	LD50	3200 mg/kg	Rabbit	
		inhalative (4 h) vapour	LC50	21,7 mg/l	Rat	
		inhalative aerosol	ATE	1,5 mg/l		
12108-13-3	tricarbonyl(methylcyclopentadienyl)manganese (MMT)	oral	LD50	58 mg/kg	Rat	
		dermal	LD50	196,7 mg/kg	Rabbit	
		inhalative (4 h) vapour	LC50	0,22 mg/l	Rat	
		inhalative (4 h) aerosol	LC50	0,076 mg/l	Rat	

Irritation and corrosivity

After skin contact: 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.

SECTION 12: Ecological information

12.1. Toxicity

Octane Premium

Print date: 17.12.2015

Product code: 1689

Page 7 of 10

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
1330-20-7	xylene					
	Acute fish toxicity	LC50	26,7 mg/l	96 h	Pimephales promelas	
12108-13-3	tricarbonyl(methylcyclopentadienyl)manganese (MMT)					
	Acute fish toxicity	LC50	0,21 mg/l	96 h	Cyprinus carpio (Carp)	
	Acute algae toxicity	ErC50	1,7 mg/l	72 h	Algae	
	Acute crustacea toxicity	EC50	0,83 mg/l	48 h	Daphnia magna	
64742-94-5	Hydrocarbons, C10, aromatics, >1% naphthalene					
	Acute fish toxicity	LC50	2-5 mg/l	96 h	Fish	
	Acute algae toxicity	ErC50	1-3 mg/l	72 h	Algae	
	Acute crustacea toxicity	EC50	3-10 mg/l	48 h	Daphnia magna	

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Low potential of bio-accumulation.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
12108-13-3	tricarbonyl(methylcyclopentadienyl)manganese (MMT)	3,4

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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not dispose with household waste.

Do not allow to enter into surface water or drains.

Have to add a Special treatment in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

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

Contaminated packaging

Contaminated packing must be completely emptied and can be re-used following appropriate cleaning.

Do not pierce, cut up or weld unclean container. (Explosion hazard.)

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	UN 1307
14.2. UN proper shipping name:	XYLENES
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3

Octane Premium

Print date: 17.12.2015

Product code: 1689

Page 8 of 10



Classification code: F1
 Limited quantity: 5 L
 Excepted quantity: E1
 Transport category: 3
 Hazard No: 30
 Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number: UN 1307
14.2. UN proper shipping name: XYLENES
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Classification code: F1
 Limited quantity: 5 L
 Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number: UN 1307
14.2. UN proper shipping name: XYLENES
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Marine pollutant: P
 Special Provisions: 223
 Limited quantity: 5 L
 Excepted quantity: E1
 EmS: F-E, S-D

Air transport (ICAO)

14.1. UN number: UN 1307
14.2. UN proper shipping name: XYLENES
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Special Provisions: A3
 Limited quantity Passenger: 10 L
 Passenger LQ: Y344

Octane Premium

Print date: 17.12.2015

Product code: 1689

Page 9 of 10

Excepted quantity:	E1	
IATA-packing instructions - Passenger:		355
IATA-max. quantity - Passenger:		60 L
IATA-packing instructions - Cargo:		366
IATA-max. quantity - Cargo:		220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes

Danger releasing substance: tricarbonyl(methylcyclopentadienyl)manganese (MMT)
Hydrocarbons, C10, aromatics, >1% naphthalene**14.6. Special precautions for user**

No information available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 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****Additional information**Contains:
> 30 % hydrocarbons, aromatic.**National regulatory information**

Water contaminating class (D): 2 - water contaminating

15.2. Chemical safety assessment

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

SECTION 16: Other information**Relevant H and EUH statements (number and full text)**

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302+H332	Harmful if swallowed or if inhaled.
H304	May be fatal if swallowed and enters airways.
H310	Fatal in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
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.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product



Safety Data Sheet

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Octane Premium

Print date: 17.12.2015

Product code: 1689

Page 10 of 10

properties and establishes no contract legal rights.

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

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