



# Octane Booster

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 13/08/2014

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version: 1.0

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

#### 1.1. Product identifier

Product name : Octane Booster  
Product code : AD02000

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

##### 1.2.1. Relevant identified uses

Function or use category : Fuel additives

##### 1.2.2. Uses advised against

No additional information available

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

MPM International Oil Company  
Cyclotronweg 1  
2629 HN Delft - Nederland  
T +31 (0)15 2514030 - F +31 (0)15 2514031  
[info@mpmoil.nl](mailto:info@mpmoil.nl) - [www.mpmoil.nl](http://www.mpmoil.nl)

#### 1.4. Emergency telephone number

Emergency number : +31 (0)15 2514030 (08.00 - 17.00)

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Centre Hospitalier Universitaire de Constantine	Avonley Road SE14 5ER London	0870 243 2241

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Asp. Tox. 1 H304  
Aquatic Chronic 3 H412

Full text of hazard classes and H-statements : see section 16

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS08

CLP Signal word : Danger.  
Hazardous ingredients : HEAVY NAPHTA (HYDROCARBONS), Hydrotreated  
Hazard statements (CLP) : H304 - May be fatal if swallowed and enters airways  
H412 - Harmful to aquatic life with long lasting effects  
Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand  
P102 - Keep out of reach of children  
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
P501 - Dispose of contents/container to officially registered waste disposal company  
EUH-statements : EUH066 - Repeated exposure may cause skin dryness or cracking

#### 2.3. Other hazards

No additional information available

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
HEAVY NAPHTA (HYDROCARBONS), Hydrotreated	(CAS No) 64742-48-9 (EC no) 265-150-3 (EC index no) 649-327-00-6	80 - 90	Asp. Tox. 1, H304
Tricarbonyl(methylcyclopentadienyl)manganese	(CAS No) 12108-13-3 (EC no) 235-166-5	1 - 2,5	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 1 (Inhalation), H330 Acute Tox. 2 (Inhalation:dust,mist), H330 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,4-trimethylbenzene	(CAS No) 95-63-6 (EC no) 202-436-9 (EC index no) 601-043-00-3	0,1 - 1	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
naphthalene	(CAS No) 91-20-3 (EC no) 202-049-5 (EC index no) 601-052-00-2	0,1 - 1	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
	(CAS No) 64742-94-5 (EC no) 265-198-5 (EC index no) 649-424-00-3	0,1 - 1	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

General	: Never give anything by mouth to an unconscious person.
After inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. In case of unconsciousness place in unconscious position and seek medical advice.
After skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Change contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
After eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a specialist.
After ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. Aspiration hazard. If victim is at risk of losing consciousness, position and transport on their side.

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

After inhalation	: Irritation of the respiratory tract. Vapours may cause drowsiness and dizziness.
After skin contact	: Frequent or prolonged contacts may defat and dry the skin, leading to discomfort and dermatitis.
After eye contact	: Eye irritation.
After ingestion	: Aspiration hazard. pulmonary oedema. Ingestion may cause nausea, vomiting and diarrhea.

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

Entering the lungs by ingestion or vomiting may cause severe lung damage. Subsequent observance for pneumonia and lung oedema.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: powder, alcohol-resistant foam, water spray, carbon dioxide.
Unsuitable extinguishing media	: High power water jet.

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

Fire hazard	: On heating/burning: release of (highly) toxic gases/vapours e.g.: carbon monoxide - carbon dioxide. May form flammable/explosive vapour-air mixture.
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#### 5.3. Advice for firefighters

Precautionary measures fire	: Do not enter fire area without proper protective equipment, including respiratory protection.
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- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
- Other information : Cool containers / tanks with spray water if possible. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### SECTION 6: Accidental release measures

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

- General measures : Provide adequate ventilation. Remove ignition sources. Do not breathe gas/fumes/vapour/spray.

##### 6.1.1. For non-emergency personnel

No additional information available

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Do not release in groundwater, surfacewater or sewerage. Make sure spills can be contained (e.g. sump pallets or kerbed areas). Notify authorities if liquid enters sewers or public waters.

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

- For containment : Stop leak if safe to do so. Prevent spreading over great surfaces (e.g. by damming or installing oil booms).
- Methods for cleaning up : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

#### 6.4. Reference to other sections

Information on personal protective equipment - see Chapter 8. Information on disposal - see Section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Obtain special instructions before use. Provide adequate ventilation. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.
- Hygiene measures : When using do not eat, drink or smoke. Avoid all unnecessary exposure. Wash hands before breaks and at the end of work. Wash contaminated clothing before reuse.

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

- Technical measures : Keep only in the original container in a cool, well-ventilated place.
- Storage conditions : Keep container tightly closed. Keep cool. Store in a dry place.
- Prohibitions on mixed storage : Oxidizing agents.
- Storage area : Store according to local legislation.

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

HEAVY NAPHTA (HYDROCARBONS), Hydrotreated (64742-48-9)		
EU	IOELV TWA (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
1,2,4-trimethylbenzene (95-63-6)		
EU	IOELV TWA (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup> 08-06-2000
EU	IOELV TWA (ppm)	25 ppm 08-06-2000
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	125 mg/m <sup>3</sup>
naphthalene (91-20-3)		
EU	IOELV TWA (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup> 29-05-1991
EU	IOELV TWA (ppm)	10 ppm 29-05-1991
(64742-94-5)		
EU	IOELV TWA (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>

- Additional information : Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40) 1200mg/m<sup>3</sup>

#### 8.2. Exposure controls

- Technical measures : If suction of the immediate vicinity is impossible or insufficient, adequate airing of the working place must be ensured. If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn.

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Materials for protective clothing	: Type of chemical protective gloves to choose depends on the concentration and quantity of dangerous substances as well as on work place specifications. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Suitable material: nitrile rubber
Hand protection	: Wear suitable gloves. DIN EN 374
Eye protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing, gloves and eye/face protection
Respiratory protection	: If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn. Suitable respiratory protective equipment: Full-/Half-/Quarter-Masks (DIN EN 136/140)

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: amber.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 61 - 66 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 776 g/l
Solubility	: Water: practically insoluble
Log Pow	: No data available
Viscosity, kinematic	: < 7 mm <sup>2</sup> /s @ 40°C
Viscosity, dynamic	: No data available
Explosive properties	: Flammable or explosive vapour/air mixtures may be formed. Product is not explosive.
Oxidising properties	: No data available
Explosive limits	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No information available.

#### 10.2. Chemical stability

The product is stable at normal handling- and storage conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

aerosol or mist generation. No naked flames, sparks, and do not smoke.

#### 10.5. Incompatible materials

Strong oxidizing agent.

#### 10.6. Hazardous decomposition products

None under normal conditions.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Octane Booster	
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5,43 mg/l/4h
ATE CLP (oral)	5000,000 mg/kg

HEAVY NAPHTA (HYDROCARBONS), Hydrotreated (64742-48-9)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	> 5 mg/l/4h

1,2,4-trimethylbenzene (95-63-6)	
LD50 oral rat	2040 mg/kg
LD50 dermal rabbit	3160 mg/kg
LC50 inhalation rat (mg/l)	18000 mg/m <sup>3</sup> 4h

naphthalene (91-20-3)	
LD50 oral rat	490 mg/kg
LD50 dermal rat	> 2500 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 110 mg/l/4h

(64742-94-5)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	> 5 mg/l/4h

Tricarbonyl(methylcyclopentadienyl)manganese (12108-13-3)	
LD50 oral rat	58 - 175 mg/kg
LD50 dermal rabbit	140 - 795 mg/kg
LC50 inhalation rat (mg/l)	0,076 mg/l/4h

Skin corrosion/irritation : Frequent or prolonged contacts may defat and dry the skin, leading to discomfort and dermatitis

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

Octane Booster	
Viscosity, kinematic	< 7 mm <sup>2</sup> /s @ 40°C

### SECTION 12: Ecological information

#### 12.1. Toxicity

HEAVY NAPHTA (HYDROCARBONS), Hydrotreated (64742-48-9)	
LC50 fish 1	> 100 mg/l @96h
EC50 Daphnia 1	> 1000 mg/l @48h

1,2,4-trimethylbenzene (95-63-6)	
EC50 Daphnia 1	6,14 mg/l 48h

naphthalene (91-20-3)	
LC50 fish 1	1,99 mg/l @96h Pimephales promelas
LC50 other aquatic organisms 1	2,96 mg/l @4h Selenastrum capricornutum
EC50 Daphnia 1	2,19 mg/l @48h Daphnia magna

(64742-94-5)	
LC50 fish 1	1 - 10 mg/l @96h
LC50 other aquatic organisms 1	1 - 10 mg/kg @72h algae
EC50 Daphnia 1	1 - 10 mg/l @48h

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<b>Tricarbonyl(methylcyclopentadienyl)manganese (12108-13-3)</b>	
EC50 Daphnia 1	0,83 mg/l @48h

### 12.2. Persistence and degradability

<b>HEAVY NAPHTA (HYDROCARBONS), Hydrotreated (64742-48-9)</b>	
Persistence and degradability	Readily biodegradable.
Biodegradation	70 % @28d
<b>(64742-94-5)</b>	
Persistence and degradability	Poorly biodegradable.

### 12.3. Bioaccumulative potential

<b>HEAVY NAPHTA (HYDROCARBONS), Hydrotreated (64742-48-9)</b>	
Log Pow	5 - 6,7
<b>(64742-94-5)</b>	
Bioconcentration factor (BCF REACH)	< 100
Log Pow	> 3,8 - 4,8

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Hand over to officially registered waste disposal company. Recycle the material as far as possible. Waste suitable for incineration.
Waste materials	: Packing which cannot be properly cleaned must be thrown away.
European List of Waste (LoW) code	: 13 07 03* - other fuels (including mixtures)

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : Not applicable

#### IMDG

Transport hazard class(es) (IMDG) : Not applicable

### 14.4. Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable

### 14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

No data available

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### - Transport by sea

No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 1 (Inhalation)	Acute toxicity (inhal.), Category 1
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
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
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
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.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking

SDS MPM REACH

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*