

# SAFETY DATA SHEET

according to regulation 1907/2006/EC (REACH)

Trade name: **Metabond Megasel+**

Version: 1

Latest revision:

Date of issue: 14. 09. 2012

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## 1. Identification of the mixture and of the company/undertaking

1.1 Product identifier:

**Metabond Megasel+**

1.2 Relevant identified uses of the mixture and uses advised against

Relevant identified uses: diesel additive

Uses advised against: no data

1.3 Details of the supplier of the safety data sheet:

METABOND Magyarország Kft.

H-9030 Győr, Csonkaér u. 5., Hungary

Phone / Fax: +36 96 332-738

Responsible for SDS:

METABOND Magyarország Kft.

H-9030 Győr, Csonkaér u. 5., Hungary

Phone / Fax: +36 96 332-738

E-mail: ljanos@metabond.hu

1.4 Emergency telephone number

Emergency telephone (07-15<sup>20</sup> h): +36 96 332-738 (CET) on workdays

Health Toxicological Information Service (ETTSZ 1096 Budapest, Nagyváradi tér 2.)

Tel.: +36 1 476 6464, or +36 80 201 199

National Health Toxicological Information Service:

## 2. Hazards identification

2.1 Classification of the substance according to regulation 1999/45/EC

Human health hazards: Xn (harmful)

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R 66 Repeated exposure may cause skin dryness or cracking.

Safety hazards: Danger symbol not required.

R 44 Risk of explosion if heated under confinement.

Environmental hazards: N (dangerous for the environment)

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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## 2.2 Label elements

Product identification: Trade name: **Metabond Megasel+**

Danger symbol(s) and indication(s):



Hazardous substance(s): 2-ethylhexyl nitrate

The packaging must bear the inscription: -

R-phrases: R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R 66 Repeated exposure may cause skin dryness or cracking.  
R 44 Risk of explosion if heated under confinement.  
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases: S 2 Keep out of the reach of children.  
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
S 23 Do not breathe gas/fumes/vapour/spray.  
S 46 If swallowed, seek medical advice immediately and show this container or label.  
S 51 Use only in well-ventilated areas.  
S 60 This material and its container must be disposed of as hazardous waste  
S 61 Avoid release to the environment. Refer to special instructions/Safety data sheets

Other liabilities for labelling:

Tactile warning of danger: Distribution for population

Transport classification: see section 14.

## 2.3 Other hazards

no data available

## 3. Composition/information on ingredients

### 3.1 Mixtures

Chemical description: Mixture of refined mineral oils with additives.

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## Component(s) / Hazardous component(s):

Name	EINECS number	CAS number	Hazard symbol / Hazard classes and cat.	Risk phrase / Hazard statements	Conc. % (m/m)
2-ethylhexyl nitrate REACH Registr.Nr.: 01-2119539586-27 	248-363-6	27247-96-7	<i>67/548/EEC:</i> Xn, N  <i>1272/2008/EC:</i> Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Aquatic Chronic 2	R 20/21/22, R 44, R 66, R 51/53  H302 H312 H332 H411	max. 70.0
2-ethylhexanol REACH Registr.Nr.: 01-2119487289-20 	203-234-3	104-76-7	<i>67/548/EEC:</i> Xn  <i>1272/2008/EC:</i> Acute Tox. 4 Eye Irrit. 2 Skin Irrit. 2 STOT SE 3	R 20, R 36/37/38  H332 H319 H315 H335	max. 4.7
Butanedioic acid, derivatives polyisobutenyl 	polymer		<i>67/548/EEC:</i>  <i>1272/2008/EC:</i> Eye Irrit. 2	H319	max. 4.7
4,4'-methylene bis(dibutyldithiocarbamate) 	233-593-1	10254-57-6	<i>67/548/EEC:</i> Xi  <i>1272/2008/EC:</i> Eye Irrit. 2 Skin Irrit. 2	R 36/38  H319 H315	max. 4.5

\*: with exposure limit

The full text of each relevant R-, H- phrase and Hazard classes and cat. see in Section 16.

## 4. First aid measures

### 4.1 Description of first aid measures

General information: Never give anything by mouth to an unconscious person, or never induce vomiting.

Inhalation: Remove the affected person to fresh air. Keep at rest. Give oxygen in case of breathing problems. Administer artificial respiration if breathing is stopped. Call a physician.

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**Skin contact:** Wash skin with large amounts of water, use soap. Remove contaminated clothing. In case of persistent irritation, get medical attention.

**Eye contact:** Flush eyes with plenty of water for 10-15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of persistent irritation, get medical attention.

**Ingestion:** **Do not** induce vomiting. In case of spontaneous vomiting In case of spontaneous vomiting, the head should be turn down. Rinse mouth. Get prompt medical attention.

4.2 Most important symptoms and effects, both acute and delayed  
Inhalation: Headache, dizziness, nausea, blood pressure drop.

4.3 Indication of any immediate medical attention and special treatment need  
On ingestion.

## 5. Fire-fighting measures

Fire hazards:

Moderately hazardous (see also Section 9 - flash point).

### 5.1 Extinguishing media

Suitable extinguishing media:

Alcohol resistant foam, carbon dioxide, water-spray.

Unsuitable extinguishing media:

Water jet.

### 5.2 Special hazards arising from the mixture

Hazardous combustion products:

On burning, carbon dioxide, carbon monoxide, nitrogen oxides, various hydrocarbons and soot can be formed.

### 5.3 Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations. Respiratory protection.

Further information:

Vapours may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back.

Heating may cause explosive decomposition, closed containers can burst.

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In case of fire, keep containers cool with water spray.  
If the leak or spill has not ignited, use water fog to disperse the vapours.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.  
Contaminated extinguishing water must be disposed of in accordance with official regulations.

## 6. Accidental release measures

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

Personal precautions: see Section 8.

All kind of ignition sources should be remove.

### 6.2 Environmental precautions:

Confine spills to prevent material from entering sewers, watercourses, drains and into soil Notify relevant authority.

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

On soil: Contain spilled liquid with sand, earth or other suitable absorbents.  
Dispose of according to local regulations.

All kind of ignition sources should be remove. Recover free liquid by pumping. Must be protected against static electricity. Contain the rest or small quantities with sand, earth or other suitable absorbents. Dispose of according to local regulations.

On water: Notify local authorities according to regulations.

### 6.4 Reference to other sections

Personal precautions: see section 8.

Waste treatment methods: see section 13.

## 7. Handling and storage

### 7.1 Precautions for safe handling

Keep general measures applied for normal operations with chemicals and flammable liquids.

Keep away from radiant heat and open flame.

Take precautionary measures against static discharges. Use sparkless tools.

Keep container closed.

Do not warm.

Use in well-ventilated room or open air.

Avoid splashing the product.

Avoid contact with skin and eyes. Avoid prolonged breathing of oil vapours or mists.

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Ensure washing facilities after working hours and before breaks. Take off contaminated or oil-soaked clothing, wash with warm water and soap.

Discard shoes and other leather articles saturated with the material.

When using do not eat, drink or smoke.

Pumping temperature: ambient

Handling temperature: max. 61°C

## 7.2 Conditions for safe storage, including any incompatibilities

Storage facilities must comply with regulations for storing of flammable liquids.

Keep away from heat, sparks, open flames. Protect from direct sunlight

Store in dry, well ventilated place in tightly closed containers.

Keep away from radiant heat, open flame and strong oxidizing agents.

Empty containers retain product residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind.

Storage temperature: max. 40°C

## 7.3 Specific end use(s)

Diesel additive.

## 8. Exposure controls / personal protection

Engineering control measures:

Adequate ventilation.

### 8.1 Control parameters:

**Mineral oil mist:** TWA: **5 mg/m<sup>3</sup>**; STEL: 10 mg/m<sup>3</sup>, for oil mist, vapour excluded (ACGIH).

Method of testing, recommended: NIOSH 5026

### 8.2 Exposure controls

Personal protection:

Respiratory protection: Breathing apparatus not required in case of adequate ventilation.

Use approved breathing apparatus if vapours, mists and aerosols are generated or recommended exposure limits are exceeded.

Hand protection: Safety gloves (EN 374) (e.g. nitrile , neoprene)

Note: Manufacturer's directions for use and the conditions of application should be observed.

Eye protection: Protective goggles, if splashes may occur

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Skin protection: Protective clothing (oil resistant).

Other special: no data

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance:

Physical state:	liquid
Colour:	dark amber, clear
Odour:	penetrating odour

Change in physical state:

Pour point (ISO 3016):	~50°C
Boiling point:	not available

Others:

Flash point (COC) (EN ISO 2592):	79°C
Ignition point (EN ISO 2592):	not available
Autoignition temperature:	not available
Explosive properties:	not explosive
Oxidizing properties:	not available
Vapour pressure at 20°C:	negligible
Density at 15°C (EN ISO 12185):	~0,95
Solubility in water:	practically insoluble in water
Solubility in other solvents:	gasoline, kerosene, toluene, etc.
n-Octanol/water partition coefficient:	not available
Vapour density:	not available
Evaporation Rate:	not available
Kinematic viscosity at 40°C (EN ISO 3104):	typ. 6 mm <sup>2</sup> /s
Kinematic viscosity at 100°C (EN ISO 3104):	typ.8.3 mm <sup>2</sup> /s
pH:	not applicable

### 9.2 Other information

no data available

## 10. Stability and reactivity

10.1 Reactivity: Dangerous reactivity not known.

10.2 Chemical stability: No decomposition if stored and handled properly.

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10.3 Possibility of hazardous reactions:

Decomposes quickly at high temperatures.

10.4 Conditions to avoid:

Warming or ignition sources.

10.5 Incompatible materials:

Strong oxidizing agents, strong bases, reducing agents, copper, copper compounds, nitriles, amines, phosphor.

10.6 Hazardous decomposition products:

No dangerous decomposition products are formed under normal conditions. Hazardous combustion products: See Section 5.

## 11. Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity:

Oral:	LD <sub>50</sub>	> 10000 mg/kg	(based on components or data of similar products)
Dermal:	LD <sub>50</sub>	> 5000 mg/kg	(based on components or data of similar products)
Inhalation:	LC <sub>50</sub> (rat)	50 mg/l	(based on components or data of similar products)

Acute toxicity: irritation

Skin: not irritant (based on components)

Note: Prolonged and/or repeated contact may cause dermatitis, depending on individual sensitivity.

Symptoms: redness, oedema, dry skin, cracking of the skin.

Eye: not irritant (based on components)

Note: Prolonged and/or repeated contact may cause irritation in eyes depending on individual sensitivity.

Inhalation: not irritant (based on components)

Note: Can irritates the nose, throat and lung. High exposures to severe irritation of the upper respiratory tract may occur.

Respiratory or skin sensitisation: not sensitising (based on components)

Chronic toxicity: not known

Repeated dose toxicity: Repeated exposure may cause skin dryness or cracking.



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## Other information, specific effects:

Carcinogen effect:	not known, resp. not carcinogen (based on components)
Mutagen effect:	not known, resp. not mutagen (based on components)
Reproduction-damaging effect:	not known, resp. no reproduction-damaging effect (based on components)
Aspiration hazard:	not known

## 12. Ecological information

### 12.1 Toxicity

Aquatic organisms:	Freshwater fish, acute:	LC <sub>50</sub>	1-10mg/l (based on components)
	Freshwater, invertebrates:	no data	
	Algae:	EC <sub>50</sub>	1-10 mg/l (based on components)
Soil organisms:	no data		
Plants:	no data		

### 12.2 Persistence and degradability

No data available.

#### Biodegradability:

*2-ethylhexyl nitrate*: 28 day 0%

### 12.3 Bioaccumulative potential

*2-ethylhexyl nitrate*: 0.1 day logKow 5.2

### 12.4 Mobility

#### Mobility in soil

*2-ethylhexyl nitrate*: 0.1 day LogKoc 3.8

#### Mobility in water:

Floats on water.

### 12.5 Results of PBT and vPvB assessment

Not required.

### 12.6 Other adverse effects

#### Heavy metal content:

None.

#### PCT, PCB and other chlorinated hydrocarbons:

None.

#### Environmental effects:

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Water hazard class (German):

-

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## 13. Disposal considerations

### 13.1 Waste treatment methods

#### Product disposal:

Wastes of the product or used oil should be treated as hazardous waste.

EWC cod: 13 08 99\*

Wastes not otherwise specified.

Disposal must be in compliance with national and local regulations.

Recommended waste treatment method: incineration

#### Packaging disposal:

Containers with product residue should also be treated as hazardous waste according to national and local disposal regulations.

EWC cod: 15 01 10\*

Packaging containing residues of or contaminated by dangerous substances.

Disposal must be in compliance with national and local regulations.

#### Wastewater:

Quality of wastewater emitted to natural water must comply with national and local regulations.

Care should be taken in any case to ensure compliance with EC, national and local regulations. It is the responsibility of the user to know all relevant national and local regulations.

## 14. Transport information

### Land transport:

Road/ Railway ADR/RID:

Class: 9

Classification code: M6

Packaging group: III

Labels: 9

Limited quantity: 5 L

Shipping category: 3

Tunnel restriction code: E

Hazard identification Number: 30

UN number: 3082

Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S.

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## Waterways:

Inland waterways/ Sea transport ADN/IMDG:

Class: 9

Packaging group: III

Labels: 9

EmS number: -

Marine pollutant: yes

Tunnel restriction code: E

UN number: 3082

Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S.

## Air transport:

ICAO / IATA:

Class: 9

Packaging group: III

Labels: 9

UN number: 3082

Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S.

## 15. Regulatory information

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

This safety data sheet has been prepared according to Regulation 1907/2006/EC (mod.: 453/2010/EC).

15.2 Chemical safety assessment.

not available

## 16. Other information

The information given in this data sheet is based on our best knowledge at the time of publication. The information is related only to this product and is intended to assist its safe transport, handling and use. The given physical and chemical parameters describe the product only for the purpose of safety requirements and therefore should not be construed as guaranteeing any specific property of the product or as being part of a product specification or any contract.

The manufacturer or supplier shall not take responsibility for any damages from the use other than recommended or other misuse of the product. It is the responsibility of the user to keep regulatory precautions and observe recommendations for safe use of the product.

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Source of data presented in this material safety data sheet:

Test results of this product

Material safety data sheets of product's components

Hungarian and EU lists of dangerous substances

Relevant Hungarian regulation and EU directives

Classification of the mixture according to regulation 1272/2008/EC

Hazard Class and Category:

Hazard statement:

not available

*The full text of each relevant R-, H- phrase and Hazard classes and cat. in Section 3.:*

R 20	Harmful by inhalation.
R 20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R 36/38	Irritating to eyes and skin.
R 36/37/38	Irritating to eyes, respiratory system and skin.
R 44	Risk of explosion if heated under confinement.
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 66	Repeated exposure may cause skin dryness or cracking.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
Acute Tox. 4	Acute toxicity Category 4
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity — single exposure Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment, Chronic Category 2

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## Revision Indicators:

Section	Subject of change	Date	Version