

# Material Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



## 70450 Isooctane p.S.

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Revised edition: 24.01.2011

Version: 3

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### 1. Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1. Product Identifier

Product Name: Isooctane p.S.

Article No.: 70450

#### 1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:

Solvent.

Uses advised against:

#### 1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Mon-Droguiste.Com

Address: 39 Bis Rue Du Moulin Rouge

Tel./Fax.: Tel +33 (0)3 25 41 04 05, Fax +33 (0)3 25 41 06 16

Internet: www.mon-droguiste.com

EMail: contact@mon-droguiste.com

Importer:

#### 1.4. Emergency No.

Emergency No.: ORFILA : 01 45 42 59 59 - SAMU : 15 - Pompiers : 18 - Médecins de garde : 15

### 2. Hazards Identification

#### 2.1. Classification of the Substance or Mixture

Classification according to EC  
Regulation 1272/2008

Flammable liquids, category 2  
Aspiration hazard, category 1  
Skin irritation, category 2  
Specific Target Organ Toxicity (single exposure), category 3  
Hazardous to the aquatic environment, acute category 1  
Hazardous to the aquatic environment, chronic category 1

H225 Highly flammable liquid and vapour.

Cat.: 2

H304 May be fatal if swallowed and enters airways.

Cat.: 1

H315 Causes skin irritation.

Cat.: 2

H336 May cause drowsiness or dizziness.

Cat.: 3

H400 Very toxic to aquatic life.

Cat.: 1

H410 Very toxic to aquatic life with long lasting effects.

Cat.: 1

Classification according to EC  
Regulation No. 67/548 or No. 1999/45

Flammable (F) R11 Highly flammable

Irritating (Xi) R38 Irritating to skin.

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Hazardous to the environment (N)	R50	Very toxic to aquatic organisms.
Harmful (Xn)	R53	May cause long-term adverse effects in the aquatic environment.
	R65	Harmful: May cause lung damage if swallowed.

*Safety Phrases:*

*Possible Environmental Effects:*

### 2.2. Label Elements

*Classification according to EC Regulation 1272/2008*

*Hazard designation:*



GHS02-2



GHS07



GHS08



GHS09

*Signal word:*

Danger

*Hazard designation:*

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

*Safety designation:*

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/ clothing/ eye/ face protection.
P301+P310	If swallowed: Immediately call a poison center or physician.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting.

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Store in a well ventilated place. Keep container tightly closed.

*Hazardous components for labelling:*

### 2.3. Other Hazards

## 3. Composition/Information on Ingredients

### 3.1. Substance

### 3.2. Mixture

*Chemical Characterization:*

*Hazardous Ingredients:*

Octane; 2,2,4-Trimethylpentane (F,Xn,N; R11-38-50-53-65-67; H225-304-315-336-400-410)

CAS-Nr: 540-84-1

EINECS-Nr: 208-759-1

EC-Nr: 601-009-00-8

*Additional information:*

## 4. First Aid Measures

### 4.1. Description of the First Aid Measures

*General information:*

*Remove contaminated clothes immediately.*

*Take person away from hazardous area.*

*Immediately get medical help.*

*Intoxication symptoms may occur after several hours, therefore a 48 hour medical observation is necessary.*

*After inhalation:*

*Supply fresh air. If required give artificial respiration. Keep patient warm.*

*Give artificial respiration in case breathing is not regular or if it has stopped.*

*After skin contact:*

*Remove contaminated clothing immediately. Wash off with luke water and soap.*

*If irritation continues consult a physician.*

*After eye contact:*

*Rinse open eye for several minutes under running water. Should irritation continue, seek medical advice.*

*After ingestion:*

*Do not induce vomiting. Consult physician immediately.*

*If vomiting occurs spontaneously, keep head below hips to prevent aspiration.*

*Careful when vomiting. Risk of aspiration. Keep respiratory tract open.*

### 4.2. Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*No further information available.*

*Effects:*

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*If vomiting occurs after ingestion, aspiration into the lungs can occur. Aspiration can cause pulmonary edema and pneumonia.*

### 4.3. Indication of any Immediate Medical Attention and special Treatment needed

*Treatment:*

*Treat symptomatically.*

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## 5. Fire-Fighting Measures

### 5.1. Extinguishing Media

*Suitable extinguishing media:*

*CO<sub>2</sub>, extinguishing powder, water jet.*

*Fight larger fire with water jet or alcohol resistant foam.*

*Unsuitable extinguishing media:*

*Water with full jet.*

### 5.2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*In case of fire: formation of carbon monoxide and dioxide.*

*May cause explosive vapor-air-mixtures.*

### 5.3. Advice for Firefighters

*Protective equipment:*

*Wear self-contained respiratory protective device.*

*Further information:*

*Contaminated extinguishing water and debris should be disposed of according to local regulations.*

*Cool exposed containers with water spray.*

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## 6. Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Wear appropriate protective equipment. Keep spectators away.*

*Provide adequate ventilation. Keep away from sources of ignition.*

*Avoid contact with skin, eyes and clothing. Do not ingest or inhale.*

### 6.2. Environmental Precautions

*Environmental precautions:*

*Prevent contamination of soil, drains and surface waters.*

*Contact local authorities if product pollutes soil or vegetation.*

*Reduce escaping gases/fumes/mist with water.*

### 6.3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Contain with absorbent material (sand, diatomaceous earth, acid binder, universal absorbent, saw dust) and dispose accordingly.*

*Larger amounts should be pumped into adequate containers.*

*Ensure adequate ventilation.*

### 6.4. Reference to other Sections

*Protective clothing, see Section 8.*

*See Section 13 for information on disposal.*

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### 7. Handling and Storage

#### 7.1. Precautions for Safe Handling

*Instructions on safe handling:*

*Provide adequate ventilation, also in floor area (vapors are heavier than air).*

*Avoid contact with eyes, skin and clothing.*

*Do not breathe vapors, aerosols.*

*Provide good ventilation and/or exhaust at the workplace. Ensure adequate ventilation. Handle and open container with care.*

*Hygienic measures:*

*Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.*

#### 7.2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Store in tightly sealed containers in a dry and cool room.*

*Protect against heat and direct sunlight.*

*Requirements for storage areas and containers:*

*Water law provisions have to be met.*

*Observe the regulations on storage of combustible solvents.*

*Information on fire and explosion protection:*

*Keep away from sources of ignition - do not smoke. Take measures to prevent electricity static discharge.*

*Do not store together with: oxidants.*

*Vapors may form an explosive mixture with air.*

*Ensure electrical continuity by bonding and grounding (earthing) all equipment.*

*Storage class (VCI):*

*3: Flammable liquids*

*Further Information:*

#### 7.3. Specific End Use(s)

*Further information:*

*No information available.*

### 8. Exposure Controls/Personal Protection

#### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*Octane (CAS 540-84-1): AGW: 2400 mg/m<sup>3</sup>; 500 ml/m<sup>3</sup>; 2 (II)*

*Parameters to be controlled (EC):*

*Derived No-Effect Level (DNEL):*

*Predicted No-Effect Concentration (PNEC):*

*Additional Information:*

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### 8.2. Exposure Controls

*Technical protective measures:*

*Exhaust system has to be explosion-protected.*

*Personal Protection*

*General protective measures:*

*Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.*

*Remove contaminated clothing immediately.*

*Avoid contact with skin, eyes and clothing.*

*Do not inhale vapor/dust.*

*Respiratory protection:*

*Respiratory equipment required in case of insufficient ventilation, filter type A (organic gases/vapors, boiling point > 65°C)*

*Hand protection:*

*Solvent resistant protective gloves.*

*Protective glove material:*

*Nitrile rubber (480 min, 0.35 mm)*

*Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time.*

*Eye protection:*

*Tightly fitting safety goggles (EN 166).*

*Body protection:*

*Protective clothing, antistatic.*

*Environmental precautions:*

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### 9. Physical and Chemical Properties

#### 9.1. Information on Basic Physical and Chemical Properties

*Form:* liquid

*Color:* colorless

*Odor:* mild

*Odor threshold:*

*No information available.*

*pH-Value:*

*not determined*

*Melting temperature:*

*-80°C*

*Boiling temperature:*

*97 - 101°C (DIN EN ISO 3405)*

*Flash point:*

*< -10°C (DIN EN ISO 13736)*

*Evaporation rate:*

*No information available.*

*Flammability (solid, gas):*

*not available*

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<i>Upper explosion limit:</i>	5.5 Vol.-%
<i>Lower explosion limit:</i>	0.7 Vol.-%
<i>Vapor pressure:</i>	53 hPa (20°C)
<i>Vapor density:</i>	No information available.
<i>Density:</i>	0.697 g/cm <sup>3</sup> (20°C)
<i>Solubility in water:</i>	not miscible
<i>Coefficient of variation (n-Octanol/Water):</i>	not determined
<i>Auto-ignition temperature:</i>	> 300°C (DIN 51794)
<i>Decomposition temperature:</i>	No data available.
<i>Viscosity, dynamic:</i>	not available
<i>Explosive properties:</i>	Product is not explosive; however, an explosive vapor/air mixture can be formed.
<i>Oxidizing properties:</i>	No information available.
<i>Bulk density:</i>	not determined

### 9.2. Further Information

<i>Solubility in solvents:</i>	
<i>Viscosity, kinematic</i>	0.75 mm <sup>2</sup> /s
<i>Burning class:</i>	
<i>Solvent content:</i>	
<i>Solid content:</i>	
<i>Particle size:</i>	
<i>Other information:</i>	

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### 10. Stability and Reactivity

- |  |  |
|--|--|
| 10.1. Reactivity                         | Stable if used according to specifications.  |
| 10.2. Chemical Stability                 | Stable if used according to specifications.  |
| 10.3. Possibility of Hazardous Reactions | Development of explosive gases or vapors.<br>Empty containers may contain product gases which can develop explosive mixtures with air. |

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### 10.4. Conditions to Avoid

*Conditions to avoid:*

*Avoid contact with heat, sparks, impact, friction, sparks and static discharge.*

*Thermal decomposition:*

*Avoid heat.*

### 10.5. Incompatible Materials

*Strong oxidizing agents.*

### 10.6. Hazardous Decomposition Products

*Carbon monoxide and dioxide.*

### 10.7. Further Information

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## 11. Toxicological Information

### 11.1. Information on Toxicological Effects

*Acute Toxicity*

*LD50, oral: > 2000 mg/kg (rat)*

*LD50, dermal:*

*No information available.*

*LC50, inhalation:*

*24.2 ml/m<sup>3</sup> (4h; rat)*

*Primary effects*

*Irritant effect on skin:*

*Causes skin and mucous membrane irritation (OECD 404)*

*Irritant effect on eyes:*

*Slight but reversible irritation.*

*Inhalation:*

*No information available.*

*Ingestion:*

*No information available*

*Sensitization:*

*No sensitizing effects known.*

*Mutagenicity:*

*No data available.*

*Reproductive toxicity:*

*No data available.*

*Cancerogenicity:*

*No data available.*

*Teratogenicity:*

*No information available.*

*Specific target organ toxicity (STOT):*

*No data available.*

*Additional toxicological information:*

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*Inhalation: Long-term overexposure can cause narcotic-like conditions, headache, dizziness and drowsiness.*

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### 12. Ecological Information

#### 12.1. Aquatic Toxicity

*No information available.*

*Fish toxicity:*

*Daphnia toxicity:*

*Bacteria toxicity:*

*Algae toxicity:*

#### 12.2. Persistency and Degradability

*Not readily biodegradable.*

#### 12.3. Bioaccumulation

*No information available.*

#### 12.4. Mobility

*No information available.*

#### 12.5. Results of PBT- und vPvP Assessment

*Not applicable.*

#### 12.6. Other Adverse Effects

*Water hazard class:*

*2 (German Regulation) (Assessment by list): hazardous.*

*Behaviour in sewage systems:*

*Further ecological effects:*

*Do not let product enter waterways or sewage system.  
Very toxic for water organisms.*

*AOX Value:*

---

### 13. Disposal Considerations

#### 13.1. Waste Treatment Methods

*Product:*

*Must not be disposed together with household garbage.  
Dispose of according to official national and local regulations.*

*European Waste Code (EWC):*

*Uncleaned packaging:*

*Dispose of according to official local regulations.*

*Waste Code No.:*

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### 14. Transport Information

#### 14.1. UN Number

*ADR, IMDG, IATA*

*1262*

#### 14.2. UN Proper Shipping Name

*ADR/RID:*

*OCTANE*

*IMDG/IATA:*

*OCTANES*

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### 14.3. Transport Hazard Classes

ADR Class:	3
Hazard no.:	3
Classification code:	F1
Tunnel no.:	D/E
IMDG Class (sea):	3
Hazard no.:	3
EmS No.:	F-E, S-E
IATA Class:	3
Hazard no.:	3

### 14.4. Packaging Group

ADR/RID:	II
IMDG:	II
IATA:	II

### 14.5. Environmental Hazards

Labelling according 5.2.1.8 ADR/RID: fish and tree  
Labelling according 5.2.1.6.3 IMDG: fish and tree  
Labelled with "P" according 2.10 IMDG: yes  
Classification as environmentally hazardous according 2.9.3  
IMDG: yes

### 14.6. Special Precautions for User

Warning: Inflammable liquids.

### 14.7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

not applicable

### 14.8. Further Information

## 15. Regulatory Information

### 15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

2, hazardous for water

Local regulations on chemical accidents:

The quantity threshold according to the Accident Ordinance has to be followed.

Employment restrictions:

The employment restrictions for young workers in accordance with the Youth Employment Protection Law (94/33/EC) are to be observed.

The employment restrictions for expectant and nursing mothers in accordance with the Maternity Protection Guideline (94/85/EEC) are to be observed.

Restriction and prohibition of application:

Technical instructions on air quality:

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### 15.2. Chemical Safety Assessment

*A Chemical Safety Assessment has not been carried out for this product.*

### 15.3. Further Information

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### 16. Other Information

*This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.*