

according to Regulation (EC) No 1907/2006

	iso-Octane, 500 ml			
Print date: 15.04.2015	Product code: 9991740	Page 1 of 8		
SECTION 1: Identification of the substance/mixture and of the company/undertaking				
1.1. Product identifier				
iso-Octane, 500 ml				
CAS No:	540-84-1			
Index No:	601-009-00-8			
EC No:	208-759-1			
1.2. Relevant identified uses of the second	ubstance or mixture and uses advised agai	nst		
Use of the substance/mixture				
Laboratory chemicals				
1.3. Details of the supplier of the safe	ety data sheet			
Seller				
Company name:	CONATEX-DIDACTIC Lehrmittel GmbH			
Street:	Im Forstgarten 1			
Place:	D-66459 Kirkel			
Internet:	www.conatex.com			
Supplier				
Company name:	Carbolution Chemicals GmbH			
Street:	Im Stadtwald, Gebäude A1.2			
Place:	D-66123 Saarbrücken			
Contact person:	Dr. Michael Bauer	Telephone: +49 (0)681 302-71232		
e-mail:	michael.bauer@carbolution-chemicals.de			
Internet:	www.carbolution-chemicals.de			
1.4. Emergency telephone	+49 (0)681 302-71232			
number:				

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R phrases: Highly flammable. Harmful: may cause lung damage if swallowed. Irritating to skin. Vapours may cause drowsiness and dizziness. Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Classification according to Regulation (EC) No. 1272/2008 [CLP] Hazard categories: Flammable liquid: Flam. Liq. 2 Appiration horard: App. Toy. 1

Aspiration hazard: Asp. Tox. 1 Skin corrosion/irritation: Skin Irrit. 2 Specific target organ toxicity - single exposure: STOT SE 3 Hazardous to the aquatic environment: Aquatic Acute 1 (M-Factor = 1) Hazard Statements: Highly flammable liquid and vapour.



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iso-Octane, 500 ml Product code: 9991740 Print date: 15.04.2015 Page 2 of 8 May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. 2.2. Label elements Hazardous components which must be listed on the label octane; 2,2,4-trimethylpentane Signal word: Danger Pictograms: GHS02-GHS07-GHS09 Hazard statements H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H410 Very toxic to aquatic life with long lasting effects. **Precautionary statements** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No P210 smoking. P240 Ground/bond container and receiving equipment. Take precautionary measures against static discharge. P243 Avoid release to the environment. P273 P501 Dispose of contents/container to Waste management. **SECTION 3: Composition/information on ingredients** 3.1. Substances

Sum formula:	C8H18
Molecular weight:	114,23

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
208-759-1	octane; 2,2,4-trimethylpentane	100 %
540-84-1	F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R11-65-38-67-50-53	
601-009-00-8	Flam. Liq. 2, Asp. Tox. 1, Skin Irrit. 2, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H225 H304 H315 H336 H400 H410	

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).



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After inhalation

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After contact with skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Rinse mouth immediately and drink plenty of water.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). Foam. Extinguishing powder.

5.2. Special hazards arising from the substance or mixture

Combustible. Vapours may form explosive mixtures with air.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protective suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. 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

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion hazard.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition. - No smoking.



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Advice on storage compatibility

Do not store together with: Material, rich in oxygen, oxidizing.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Eye/face protection

Eye protection: Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

Hand protection

Hand protection: Single-use gloves. Before using check leak tightness / impermeability. Use gloves only once. German Industry Norms (DIN) / European Norms (EN): DIN EN 374

Skin protection

Body protection: Lab apron. Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protective equipment: particulates filter device (DIN EN 143).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid		
Colour:	colourless		
Odour:	No data available		
			Test method
pH-Value:		No data available	
Changes in the physical state			
Initial boiling point and boiling range:		98 °C	
Sublimation point:		No data available	
Softening point:		No data available	
Flash point:		-12 °C	
Flammability			
Solid:		No data available	
Gas:		No data available	
Lower explosion limits:		1 vol. %	
Upper explosion limits:		6 vol. %	
Ignition temperature:		No data available	
Auto-ignition temperature			
Solid:		No data available	
Gas:		No data available	



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	ian Ontana 500 ml	
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Vapour pressure:	55 hPa	
(at 21 °C) Vapour pressure:	117 hPa	
(at 37,8 °C)	117 III a	
Density:	No data available	
Water solubility:	No data available	
Partition coefficient:	4,6	
Viscosity / dynamic:	No data available	
Viscosity / kinematic:	No data available	
Flow time:	No data available	
Vapour density:	3,94	
Evaporation rate:	No data available	
Solvent separation test:	No data available	
Solvent content:	No data available	
9.2. Other information		
Solid content:	No data available	
SECTION 10: Stability and reactivity		
10.1. Reactivity		
No data available		
10.3. Possibility of hazardous reactions		
No data available		
10.4. Conditions to avoid Keep away from heat. Ignition hazard	l.	
10.5. Incompatible materials		
Oxidizing agents, strong.		
10.6. Hazardous decomposition products		
No data available		

No data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

Toxicological data are not available.

Acute toxicity

Toxicological data are not available.

Irritation and corrosivity

Vapours may cause drowsiness and dizziness. After skin contact: Irritant.

Sensitising effects

No data available

Severe effects after repeated or prolonged exposure

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

Due to missing data no statement can be made whether the substance fullfills the criteria of CMR categories 1 or 2. Practical experiences do not give any evidence for CMR activity of categories 1 or 2.



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Specific effects in experiment on an animal

No data available

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

Practical experience

Observations relevant to classification

No data available

SECTION 12: Ecological information

12.1. Toxicity

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

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

Further information

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

Classified as hazardous waste.

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.



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SECTION 14: Transport information			
Land transport (ADR/RID)	1111262		
14.1. UN number:	UN1262		
14.2. UN proper shipping name:	OCTANES		
14.3. Transport hazard class(es):	3		
14.4. Packing group:	II		
Hazard label:	3		
Classification code:	F1		
Limited quantity:	1 L		
Transport category: Hazard No:	2 33		
Tunnel restriction code:	D/E		
Other applicable information (land trans E2	sport)		
Inland waterways transport (ADN)			
<u>14.1. UN number:</u>	UN1262		
14.2. UN proper shipping name:	OCTANES		
14.3. Transport hazard class(es):	3		
14.4. Packing group:	II		
Hazard label:	3		
Classification code:	5 F1		
Limited quantity:	1 L		
Other applicable information (inland wa	terways transport)		
E2			
Marine transport (IMDG)			
<u>14.1. UN number:</u>	UN1262		
14.2. UN proper shipping name:	OCTANES		
14.3. Transport hazard class(es):	3		
14.4. Packing group:	П		
Hazard label:	3		
Special Provisions:	-		
Limited quantity:	1 L		
EmS:	F-E, S-E		
Other applicable information (marine tra E2	ansport)		
,			
	OCTANES		
14.3. Transport hazard class(es):	3		
14.4. Packing group:	II		
Hazard label:	3		
	1 L		
		353	
14.4. Packing group:	П	353 5 L 364	



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IATA-max. qua	antity - Cargo:	60 L			
Other applica	ble information (air trans	port)			
-	E2				
:	Y341				
14.5. Environme	ntal hazards				
ENVIRONME	NTALLY HAZARDOUS:	yes			
SECTION 15: R	egulatory information				
15.1. Safety, heal	Ith and environmental reg	ulations/legislation specific for the substance or mixture	2		
EU regulatory	information				
2004/42/EC (\	/OC):	100 %			
Additional inf	,				
		g to Regulation (EC) No. 1907/2006 (REACH)			
	latory information				
-	inating class (D):	3 - highly water contaminating			
SECTION 16: O	ther information				
Relevant R-ni	hrases (Number and full t	ext)			
11	Highly flammable.				
38	Irritating to skin.				
50	Very toxic to aquatic organisms.				
53					
65	65 Harmful: may cause lung damage if swallowed.				
67	Vapours may cause	drowsiness and dizziness.			
Relevant H- a	nd EUH-phrases (Numbe	r and full text)			
H225		nable liquid and vapour.			
H304		if swallowed and enters airways.			
H315					
H336	H336 May cause drowsiness or dizziness.				
H400	H400 Very toxic to aquatic life				

- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.