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Page 1 of 13

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 22.06.2012 / 0014

Replaces revision of / Version: 13.02.2012 / 0013

Valid from: 22.06.2012 PDF print date: 22.06.2012 OCTANE PLUS 150ML Art.: 2956

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

OCTANE PLUS 150ML

Art.: 2956

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

Additives

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH, Jerg-Wieland-Straße 4, D-89081 Ulm-Lehr Telephone (+49) 0731-1420-0, Fax (+49) 0731-1420-88

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

1.4 Emergency telephone

Advisory office in case of poisoning:

Telephone number of the company in case of emergencies:

Tel.: (+49) 0731-1420-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)

Not determined

2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments)

Xn, Harmful, R21/22

T, Toxic, R23

40 Limited evidence of a carcinogenic effect.

Dangerous for the environment, R52-53

Xn, Harmful, R65

R66

2.2 Label elements

2.2.1 Labeling according to Regulation (EC) 1272/2008 (CLP)

Not determined

2.2.2 Labeling according to Directives 67/548/EEC and 1999/45/EC (including amendments)



Symbols: T

Indications of danger:

Toxic

R-phrases:

21/22 Harmful in contact with skin and if swallowed.

23 Toxic by inhalation.



Page 2 of 13

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 22.06.2012 / 0014

Replaces revision of / Version: 13.02.2012 / 0013

Valid from: 22.06.2012 PDF print date: 22.06.2012 OCTANE PLUS 150ML Art.: 2956

40 Limited evidence of a carcinogenic effect.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

S-phrases:

(1/2) Keep locked up and out of the reach of children.

13 Keep away from food, drink and animal feedingstuffs.

23 Do not breathe vapour/spray.

29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

36/37 Wear suitable protective clothing and gloves.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Tricarbonyl(methylcyclopentadienyl)manganese

Fuels, jet aircraft, coal solvent extn., hydrocracked hydrogenated

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006.

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006.

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a. 3.2 Mixture

OLE IMIXEGIO	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-	
25%)	
Registration number (REACH)	01-2119473977-17-XXXX
Index	
EINECS, ELINCS, NLP	919-164-8 (REACH-IT List-No.)
CAS	(64742-82-1)
content %	80-100
Classification according to Directive 67/548/EEC	Harmful, Xn, R65
	R66
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304
	Aguatic Chronic 3, H412

Tricarbonyl(methylcyclopentadienyl)manganese	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	235-166-5
CAS	CAS 12108-13-3
content %	3-<7
Classification according to Directive 67/548/EEC	Very toxic, T+, R26
	Toxic, T, R24/25
	Dangerous for the environment, N, R50
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 2, H330
	Acute Tox. 3, H311
	Acute Tox. 3, H301
	Aquatic Acute 1, H400

1,2,4-trimethylbenzene	Substance for which an EU exposure limit value applies.
Registration number (REACH)	
Index	601-043-00-3
EINECS, ELINCS, NLP	202-436-9
CAS	CAS 95-63-6
content %	1-<2,5



Œ

Page 3 of 13

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 22.06.2012 / 0014

Replaces revision of / Version: 13.02.2012 / 0013

Valid from: 22.06.2012 PDF print date: 22.06.2012 OCTANE PLUS 150ML Art.: 2956

Classification according to Directive 67/548/EEC	Flammable, R10
	Harmful, Xn, R20
	Irritant, Xi, R36/37/38
	Dangerous for the environment, N, R51
	Dangerous for the environment, R53
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 3, H226
	Acute Tox. 4, H332
	Eye Irrit. 2, H319
	STOT SE 3, H335
	Skin Irrit. 2, H315
	Aquatic Chronic 2, H411

Fuels, jet aircraft, coal solvent extn., hydrocracked hydrogenated	
Registration number (REACH)	
Index	648-154-00-3
EINECS, ELINCS, NLP	302-694-3
CAS	CAS 94114-58-6
content %	1-<2,5
Classification according to Directive 67/548/EEC	Carcinogen, R40, Carc. Cat. 3 Flammable, R10 Irritant, Xi, R37 Dangerous for the environment, N, R51-53 Harmful, Xn, R65 R66 R67
Classification according to Regulation (EC) 1272/2008 (CLP)	Carc. 2, H351 Flam. Liq. 3, H226 STOT SE 3, H335 Aquatic Chronic 2, H411 Asp. Tox. 1, H304 STOT SE 3, H336

For the text of the R-phrases / H-phrases and classification codes (GHS/CLP), see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

Respiratory arrest - Artificial respiration apparatus necessary.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap. Call a doctor immediately, keep datasheet at hand

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting.

Give water to drink.

Consult doctor immediately - keep Data Sheet available.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

The following may occur:

Irritation of the eyes

Product removes fat.

Dermatitis (skin inflammation)

Ingestion:

Danger of aspiration

Lung damage



Œ

Page 4 of 13

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 22.06.2012 / 0014

Replaces revision of / Version: 13.02.2012 / 0013

Valid from: 22.06.2012 PDF print date: 22.06.2012 OCTANE PLUS 150ML Art.: 2956

Inhalation: headaches

irritation of the respiratory tract

nausea Dizziness

Other dangerous properties cannot be ruled out.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media

CO₂

Extinction powder

Foam

Water jet spray

Cool container at risk with water.

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Manganese oxides

Toxic pyrolysis products.

Flammable vapour/air mixtures

5.3 Advice for firefighters

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

Protective respirator with independent air supply.

Full protection

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

If air supply is not sufficient, wear protective breathing apparatus.

Avoid inhalation, and contact with eyes or skin.

6.2 Environmental precautions

If leakage occurs, dam up.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Suction measures at the workplace or on the processing machines required.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.



(GB)-

Page 5 of 13

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 22.06.2012 / 0014

Replaces revision of / Version: 13.02.2012 / 0013

Valid from: 22.06.2012 PDF print date: 22.06.2012 OCTANE PLUS 150ML Art.: 2956

Handle and open container with care.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

Suction measures at the workplace or on the processing machines required.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Observe special storage conditions (in Germany, e.g., in accordance with the regulations in the "Betriebssicherheitsverordnung").

Solvent resistant floor

Do not store with oxidizing agents.

Store in a well ventilated place.

Store cool

Keep locked away.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 1200 mg/m3

Hydrocarbons, C10		Content %:80- 100		
	WEL-STEL:			
		Other information: (V EH40)	VEL acc. 1	to RCP-method,
1,2,4-trimethylbenz	ene			Content %:1-<2,5
	WEL-STEL:			
mixtures) (WEL), 20				
		Other information:	•	
Fuels jet aircraft o	cal solvent extra hydrocracked h	vdrogenated		Content %:1-<2.5
	, , , , , , , , , , , , , , , , , , ,	ydrogenated		Content 70.1-42,5
onnai and branched	WEL-31EL			
		Other information:		
	1,2,4-trimethylbenz mixtures) (WEL), 20 Fuels, jet aircraft, o	WEL-STEL: 1,2,4-trimethylbenzene WEL-STEL: wixtures) (WEL), 20	Other information: (V EH40) 1,2,4-trimethylbenzene mixtures) (WEL), 20 Other information: Fuels, jet aircraft, coal solvent extn., hydrocracked hydrogenated ormal and branched WEL-STEL:	WEL-STEL: Other information: (WEL acc. to EH40) 1,2,4-trimethylbenzene mixtures) (WEL), 20 Other information: Fuels, jet aircraft, coal solvent extn., hydrocracked hydrogenated ormal and branched WEL-STEL:

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

8.2.2 Individual protection measures, such as personal protective equipment



Page 6 of 13

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 22.06.2012 / 0014

Replaces revision of / Version: 13.02.2012 / 0013

Valid from: 22.06.2012 PDF print date: 22.06.2012 OCTANE PLUS 150ML Art.: 2956

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Solvent resistant protective gloves (EN 374).

Protective hand cream recommended.

If applicable

Protective Viton gloves (EN 374)

(Vitojet 890 / KLC)

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

Respiratory protection:

If OES or MEL is exceeded.

Filter A P 3 (EN 14387), code colour brown, white

If applicable

At high concentrations:

Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

Not determined

9.1 Information on basic physical and chemical properties

Physical state: Liquid Colour: Brown, Clear Odour: Characteristic Odour threshold: Not determined

pH-value: n.a.

Melting point/freezing point: Not determined Initial boiling point and boiling range: Not determined

63 °C Flash point:

Evaporation rate: Not determined Flammability (solid, gas): Not determined Lower explosive limit: Not determined Upper explosive limit: Not determined Vapour pressure: Not determined

Vapour density (air = 1): Vapours heavier than air. Density: 0,817 g/cm3 (15°C) n.a.

Bulk density: Solubility(ies):

Water solubility: Insoluble Partition coefficient (n-octanol/water): Not determined



Page 7 of 13

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 22.06.2012 / 0014

Replaces revision of / Version: 13.02.2012 / 0013

Valid from: 22.06.2012 PDF print date: 22.06.2012 OCTANE PLUS 150ML Art.: 2956

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

Explosive properties:

Not determined

Not determined

7 mm2/s (40°C)

Not determined

Oxidising properties:

9.2 Other information

Miscibility:

Fat solubility / solvent:

Conductivity:

Not determined

Not determined

Not determined

Surface tension:

Not determined

Not determined

Not determined

Not determined

SECTION 10: Stability and reactivity

No

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

See also section 7.

10.5 Incompatible materials

See also section 7.

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

SECTION 11: Toxicological information

Possibly more information on health effects, see Section 2.1 (classification).

OCTANE PLUS 150ML						
Art.: 2956						
Toxicity/effect	Endpoin	Value	Unit	Organism	Test method	Notes
	t					
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-RE):						
Aspiration hazard:						n.d.a.
Respiratory tract irritation:						n.d.a.
Repeated dose toxicity:						n.d.a.
Symptoms:						n.d.a.

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)							
Toxicity/effect	Endpoin	Value	Unit	Organism	Test method	Notes	
	t						
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral		
					Toxicity)		



Page 8 of 13

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revised on / Version: 22.06.2012 / 0014

Replaces revision of / Version: 13.02.2012 / 0013

Valid from: 22.06.2012 PDF print date: 22.06.2012 OCTANE PLUS 150ML Art.: 2956

Acute toxicity, by dermal route:	LD50	~3400	mg/kg	Rat	OECD 402 (Acute	
• • •					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	13100	mg/m3	Rat	OECD 403 (Acute	
					Inhalation Toxicity)	
Skin corrosion/irritation:						Not irritant, Repeated
						exposure may cause skin
						dryness or cracking.
Serious eye damage/irritation:						Not irritant
Respiratory or skin						Not sensitizising
sensitisation:						_
Germ cell mutagenicity:						Negative
Carcinogenicity:						Analogous conclusion,
						Negative
Specific target organ toxicity -						No (inhalation)
single exposure (STOT-SE):						
Aspiration hazard:						Yes
Symptoms:						dizziness,
						unconsciousness,
						headaches

Tricarbonyl(methylcyclopentadienyl)manganese							
Toxicity/effect	Endpoin	Value	Unit	Organism	Test method	Notes	
	t						
Acute toxicity, by oral route:	LD50	175	mg/kg	Rat			
Acute toxicity, by dermal route:	LD50	140	mg/kg	Rabbit			
Acute toxicity, by dermal route:	LD50	140	mg/kg	Rat			
Acute toxicity, by inhalation:	LC50	0,076	mg/l/4h	Rat			
Skin corrosion/irritation:						Irritant	
Serious eye damage/irritation:						Not irritant	
Serious eye damage/irritation:						Irritant	
Respiratory tract irritation:						Irritant	
Repeated dose toxicity:						Negative	
Symptoms:						breathing difficulties,	
						annoyance, headaches,	
						cramps, dizziness,	
						nausea	

1,2,4-trimethylbenzene						
Toxicity/effect	Endpoin	Value	Unit	Organism	Test method	Notes
	t					
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by inhalation:	LC50	18	mg/l/4h	Rat		
Symptoms:						dizziness,
						unconsciousness,
						headaches, fatigue,
						dizziness, nausea

Fuels, jet aircraft, coal solvent extn., hydrocracked hydrogenated							
Toxicity/effect	Endpoin t	Value	Unit	Organism	Test method	Notes	
Skin corrosion/irritation:						Repeated exposure may cause skin dryness or cracking.	
Aspiration hazard:						Yes	

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

OCTANE PLUS 150ML							
Art.: 2956							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:							n.d.a.
Toxicity to daphnia:							n.d.a.



Page 9 of 13

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revised on / Version: 22.06.2012 / 0014

Replaces revision of / Version: 13.02.2012 / 0013

Valid from: 22.06.2012 PDF print date: 22.06.2012 OCTANE PLUS 150ML Art.: 2956

Toxicity to algae:				n.d.a.
Persistence and degradability:				Isolate as much as possible with an oil separator.
Bioaccumulative				n.d.a.
potential:				
Mobility in soil:				n.d.a.
Results of PBT and				n.d.a.
vPvB assessment				
Other adverse effects:				n.d.a.
Other information:	AOX			According to the recipe, contains no AOX.

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LL50	96h	>10-	mg/l	(Oncorhynchus	OECD 203	
			<100		mykiss)	(Fish, Acute	
					,,	Toxicity Test)	
Toxicity to daphnia:	EL50	48h	100-	mg/l	(Daphnia magna)	OECD 202	
, ,			200			(Daphnia sp.	
						Àcute	
						Immobilisation	
						Test)	
Toxicity to daphnia:	NOEC/NO	21d	0,28	mg/l	(Daphnia magna)	OECD 211	
	EL					(Daphnia magna	
						Reproduction	
						Test)	
Toxicity to algae:	EL50	72h	10-100	mg/l	(Pseudokirchneriell	OECD 201	
, ,				_	a subcapitata)	(Alga, Growth	
						Inhibition Test)	
Persistence and		28d	74,7	%		OECD 301 F	Readily biodegradable
degradability:						(Ready	
						Biodegradability -	
						Manometric	
						Respirometry	
						Test)	
Bioaccumulative			4,2-7,2			•	
potential:							
Results of PBT and						•	No PBT substance, No
vPvB assessment							vPvB substance

Tricarbonyl(methylcyclopentadienyl)manganese										
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
Toxicity to fish:	LC50	96h	0,21-	mg/l	(Pimephales					
			0,34		promelas)					
Toxicity to daphnia:	LC50	48h	0,83	mg/l	(Daphnia magna)					

1,2,4-trimethylbenzene									
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes		
Toxicity to fish:	LC50	96h	7,72	mg/l					
Toxicity to daphnia:	EC50	48h	3,6	mg/l					

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of. EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC) 07 06 04 other organic solvents, washing liquids and mother liquors



Page 10 of 13

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 22.06.2012 / 0014 Replaces revision of / Version: 13.02.2012 / 0013

Valid from: 22.06.2012 PDF print date: 22.06.2012 OCTANE PLUS 150ML Art.: 2956

07 07 04 other organic solvents, washing liquids and mother liquors

Recommendation:

Pay attention to local and national official regulations

Implement substance recycling. E.g. suitable incineration plant.

For contaminated packing material

Pay attention to local and national official regulations

Empty container completely. Suitable incineration plant.

SECTION 14: Transport information

General statements

UN number: 2810

Transport by road/by rail (ADR/RID)

UN proper shipping name:

UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (NAPHTHA (PETROLEUM), TRICARBONYL (METHYLCYCLOPENTAĎIENYL) MANGANESE)

Transport hazard class(es):

Packing group:

II

Classification code:

T1

LQ (ADR 2011):

LQ (ADR 2009):

17

Environmental hazards: Not applicable

Tunnel restriction code: D/E

Transport by sea (IMDG-code)

UN proper shipping name:

TOXIC LIQUID, ORGANIC, N.O.S. (NAPHTHA (PETROLEUM), TRICARBONYL (METHYLCYCLOPENTADIENYL) MÂNGANESE)

Transport hazard class(es):

Packing group:

II

EmS:

F-A, S-A

Marine Pollutant:

Environmental hazards:

Not applicable

Environmental hazards: Transport by air (IATA)

UN proper shipping name:

Toxic liquid, organic, n.o.s. (NAPHTHA (PETROLEUM), TRICARBONYL (METHYLCYCLOPENTADIENYL) MANGANESE)

Transport hazard class(es):

Packing group:

| Continue | Continue

Environmental hazards: Not applicable

Special precautions for user

Persons employed in transporting dangerous goods must be trained. All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

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

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

SECTION 15: Regulatory information

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

Yes

For classification and labelling see Section 2.

Observe restrictions:

 $Comply \ with \ trade \ association/occupational \ health \ regulations.$

Observe youth employment law (German regulation).

Observe law on protection of expectant mothers (German regulation).

Regulation (EC) No 1907/2006, Annex XVII

VOC (1999/13/EC): ~ 96%

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.



Page 11 of 13

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 22.06.2012 / 0014

Replaces revision of / Version: 13.02.2012 / 0013

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SECTION 16: Other information

3

These details refer to the product as it is delivered.

Revised sections:

The following statements are the indicated R-phrases / H-phrases and classification codes (GHS/CLP) for the ingredients (listed in Section 3).

10 Flammable.

20 Harmful by inhalation.

21/22 Harmful in contact with skin and if swallowed.

23 Toxic by inhalation.

24/25 Toxic in contact with skin and if swallowed.

36/37/38 Irritating to eyes, respiratory system and skin.

37 Irritating to respiratory system.

50 Very toxic to aquatic organisms.

51 Toxic to aquatic organisms.

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

52 Harmful to aquatic organisms.

53 May cause long-term adverse effects in the aquatic environment.

40 Limited evidence of a carcinogenic effect.

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

26 Very toxic by inhalation.

67 Vapours may cause drowsiness and dizziness.

H330 Fatal if inhaled.

H226 Flammable liquid and vapour.

H301 Toxic 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.

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.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Asp. Tox.-Aspiration hazard

Aquatic Chronic-Hazardous to the aquatic environment - chronic

Acute Tox.-Acute toxicity - inhalation Acute Tox.-Acute toxicity - dermal

Acute Tox.-Acute toxicity - oral

Aquatic Acute-Hazardous to the aquatic environment - acute

Flam. Liq.-Flammable liquid

Eve Irrit.-Eve irritation

STOT SE-Specific target organ toxicity - single exposure - respiratory tract irritation

Skin Irrit.-Skin irritation

Carc.-Carcinogenicity

STOT SE-Specific target organ toxicity - single exposure - narcotic effects

Any abbreviations and acronyms used in this document:

AC **Article Categories**

according, according to acc., acc. to

ACGIH American Conference of Governmental Industrial Hygienists

Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the

International Carriage of Dangerous Goods by Road)

AOEL Acceptable Operator Exposure Level

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number



Page 12 of 13

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 22.06.2012 / 0014

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ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

PANA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (- Enderel Institute for Occupational Health and Safety Cormany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)

BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol) BMGV Biological monitoring guidance value (EH40, UK)

BOD Biochemical oxygen demand

BSEF Bromine Science and Environmental Forum

bw body weight

CAS Chemical Abstracts Service

CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques

CIPAC Collaborative International Pesticides Analytical Council

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances

and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

COD Chemical oxygen demand

CTFA Cosmetic, Toiletry, and Fragrance Association

DMEL Derived Minimum Effect Level
DNEL Derived No Effect Level
DOC Dissolved organic carbon

DT50 Dwell Time - 50% reduction of start concentration

DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EC European Community
ECHA European Chemicals Agency
EEA European Economic Area
EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ERC Environmental Release Categories

ES Exposure scenario

etc. et cetera EU European Union

EWC European Waste Catalogue

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

HET-CAM Hen's Egg Test - Chorionallantoic Membrane

HGWP Halocarbon Global Warming Potential IARC International Agency for Research on Cancer IATA International Air Transport Association

IBC Intermediate Bulk Container

IBC (Code) International Bulk Chemical (Code)

IC Inhibitory concentration

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform ChemicaL Information Database

LC lethal concentration

LC50 lethal concentration 50 percent kill LCLo lowest published lethal concentration

LD Lethal Dose of a chemical LD50 Lethal Dose, 50% kill

LDLo Lethal Dose Low

LOAEL Lowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration

LOEL Lowest Observed Effect Level

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicable



Page 13 of 13

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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Valid from: 22.06.2012 PDF print date: 22.06.2012 OCTANE PLUS 150ML Art.: 2956

n.av. not available not checked n.c. n.d.a. no data available

NIOSH National Institute of Occupational Safety and Health (United States of America)

NOAECNo Observed Adverse Effective Concentration

NOAEL No Observed Adverse Effect Level NOEC No Observed Effect Concentration NOEL No Observed Effect Level ODP Ozone Depletion Potential

OECD Organisation for Economic Co-operation and Development

organic org.

PAH polycyclic aromatic hydrocarbon persistent, bioaccumulative and toxic PBT

PC Chemical product category

PΕ Polyethylene

PNEC Predicted No Effect Concentration POCP Photochemical ozone creation potential

parts per million ppm PROC Process category PTFE Polytetrafluorethylene

REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

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Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International

Carriage of Dangerous Goods by Rail) SADT Self-Accelerating Decomposition Temperature

SAR Structure Activity Relationship

Sector of use SU

SVHC Substances of Very High Concern

Tel Telephone

ThOD Theoretical oxygen demand

TOC Total organic carbon

TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances) Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria)) VbF

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

wet weight wwt

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

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