

Revision nr. 1

Dated 2/3/2015

Printed on 03/03/2015

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46S - OXIFER

Safety data sheet

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

1.1. Product identifier

Code: **46S**

Product name OXIFER

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

Intended use SMALTO FERRO ANTICO SABBIATO

1.3. Details of the supplier of the safety data sheet

Name MACOTA s.r.l.

Full address Via Piave, 82

District and Country 50053 Empoli (FI)

ITALIA

Tel. 0571 450184

Fax 0571 450185

e-mail address of the competent person

responsible for the Safety Data Sheet info@macota.it

Product distribution by Macota S.r.l.

1.4. Emergency telephone number

For urgent inquiries refer to Uffici e Stabilimento: Via della Fornace, 9/11/13 - Via Corta 1/b56020 San Romano

(PI)Tel. ++39 (0)571 450184 - ++39 (0)571 450185

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

2.1.1. Regulation 1272/2008 (CLP) and following amendments and adjustments.

Hazard classification and indication:

Aerosol 1 H222

H229

Eye Irrit. 2 H319

2.1.2. 67/548/EEC and 1999/45/EC Directives and following amendments and adjustments.

Danger Symbols:

F+

R phrases:

12-52/53-67

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.





Signal words:

Danger

H222 Extremely flammable aerosol.

H229 Pressurized container: may burst if heated.

H319 Causes serious eye irritation.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat / sparks / open flames / hot surfaces. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Pressurized container: do not pierce or burn, even after use.

P264 Wash . . . thoroughly after handling.



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P280 Wear protective gloves / protective clothing / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P337+P313 If eye irritation persists: Get medical advice / attention.

P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50°C / 122°F.

2.3. Other hazards.

Information not available.

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

Identification.	Conc. %.	Classification 67/548/EEC.	Classification 1272/2008 (CLP).
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Dimetiletere

CAS. 115-10-6 50 - 90 F+ R12, Note U Flam. Gas 1 H220, Note U

EC. 204-065-8

INDEX. 603-019-00-8

ACETONE

CAS. 67-64-1 10 - 18 R66, R67, F R11, Xi R36 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC. 200-662-2

INDEX. 606-001-00-8

NAPHTA (PETROL.) HYDROTREATED HEAVY

CAS. 64742-48-9 7 - 10 Xn R65, Note P Asp. Tox. 1 H304, Note P

EC. 265-150-3

INDEX. 649-327-00-6

N-BUTYL ACETATE			
CAS. 123-86-4	4 - 7	R10, R66, R67	Flam. Liq. 3 H226, STOT SE 3 H336, EUH066
EC. 204-658-1			
INDEX. 607-025-00-1			
1-METHOXY-2-PROPANOL ACETATE			
CAS. 108-65-6	2 - 3	R10	Flam. Liq. 3 H226
EC. 203-603-9			
INDEX. 607-195-00-7			
ALUMINIUM POWDER (STABILIZED)			
CAS. 7429-90-5	0,8 - 1,7	F R11, F R15, Note T	Flam. Sol. 1 H228, Water-react. 2 H261, Note T
EC. 231-072-3			
INDEX. 013-002-00-1			
XYLENE (MIXTURE OF ISOMERS)			
CAS. 1330-20-7	0,8 - 1,7	R10, Xn R20/21, Xi R38, Note C	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, Note C
EC. 215-535-7			
INDEX. 601-022-00-9			
BARIUM SULFATE			
CAS. 7727-43-7	0,8 - 1,7		Substance with a community workplace exposure limit.
EC. 231-784-4			
INDEX			
ETHYLBENZENE			
CAS. 100-41-4	0,8 - 1,7	F R11, Xn R20	Flam. Liq. 2 H225, Acute Tox. 4 H332
EC. 202-849-4			
INDEX. 601-023-00-4			
1,2,4-TRIMETHYLBENZENE			
CAS. 95-63-6	0,5 - 0,9	R10, Xn R20, Xi R36/37/38, N R51/53	Flam. Liq. 3 H226, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 2 H411



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EC. 202-436-9

INDEX. 601-043-00-3

NAPHTA (PETROL.) HYDRODESULFURIZED HEAVY

CAS. 64742-82-1

0,5 - 0,9

R66, R67, F R11, Xn R65, N R51/53,

Asp. Tox. 1 H304, Note P

Note P

EC. 265-185-4

INDEX. 649-330-00-2

SOLVENT NAPHTA (PETROLEUM), LIGHT AROM

CAS. 64742-95-6

0,5 - 0,9

R10, R66, R67, Xn R65, Xi R37, N

Asp. Tox. 1 H304, Note P

EC. 265-199-0

INDEX. 649-356-00-4

Idrocarburi n-alcani,isoalcani,ciclici,aromatici

CAS. -

0,5 - 0,9

R66, R67, F R11, Xn R48/20, Xn R65, N R51/53

Flam. Liq. 2 H225, STOT RE 1 H372, Asp. Tox. 1 H304, Eye Irrit. 2 H319, STOT SE 3 H336, Aquatic

Chronic 2 H411

EC. 919-446-0

INDEX. -

Reg. no. 01-2119458049-33

Note: Upper limit is not included into the range.

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

T+ = Very Toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritant(Xi), O = Oxidizing(O), E = Explosive(E), F+ = Extremely Flammable(F+), F = Highly Flammable(F), N = Dangerous for the Environment(N)

SECTION 4. First aid measures.

4.1. Description of first aid measures.

EYES: Remove contact lenses, if present Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

6.2. Environmental precautions.

Do not disperse in the environment.

6.3. Methods and material for containment and cleaning up.

Use inert absorbent material to soak up leaked product. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.



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6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

7.2. Conditions for safe storage, including any incompatibilities.

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C, away from any combustion sources.

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

United Kingdom EH40/2005 Workplace exposure limits. Containing the list of workplace exposure

limits for use with the Control of Substances Hazardous to Health Regulations (as

amended).

Éire Code of Practice Chemical Agent Regulations 2011.

OEL EU Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive

2000/39/EC.

TLV-ACGIH ACGIH 2012

ACETONE

Threshold Limit Value.

Туре	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
WEL	UK	1210	500	3620	1500
OEL	IRL	1210	500		
OEL	EU	1210	500		
TLV-ACGIH		1187	500	1781	750

N-BUTYL ACETATE

TLV-ACGIH

Threshold Limit Value.						
Туре	Country	TWA/8h	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm	
WEL	UK	724	150	966	200	
OEL	IRL	710	150	950	200	

713

150

1-METHOXY-2-PROPANOL ACETATE

Threshold Limit Value.							
Туре	Country	TWA/8h		STEL/15min	STEL/15min		
		mg/m3	ppm	mg/m3	ppm		
WEL	UK	274	50	548	100		
OEL	IRL	275	50	550	100	SKIN	
OEL	EU	275	50	550	100	SKIN	

950

200

ETHYLBENZENE							
Threshold Limit Value.							
Туре	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
WEL	UK	441	100	552	125	SKIN	
OFI	IRI	442	100	884	200	SKIN	



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OEL EU 442 100 884 200 SKIN

TLV-ACGIH 20 100 87

BARIUM SULFATE

Threshold Limit Value.

Type Country TWA/8h STEL/15min

mg/m3 ppm mg/m3 ppm

WEL UK 4

OEL IRL 2

OEL EU 0,5

TLV-ACGIH 10

XYLENE (MIXTURE OF ISOMERS)

Threshold Limit Value.

Туре	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
WEL	UK	220	50	441	100	
OEL	IRL	221	50	442	100	SKIN
OEL	EU	221	50	442	100	SKIN
TLV-ACGIH		434	100	651	150	

ALUMINIUM POWDER (STABILIZED)

Threshold Limit Value.

 Type
 Country
 TWA/8h
 STEL/15min

 mg/m3
 ppm
 mg/m3
 ppm

WEL UK 4

OEL IRL 1

TLV-ACGIH 1 0,9

Idrocarburi n-alcani,is	oalcani,ciclici,aro	matici				
Threshold Limit Value	·•					
Туре	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TI V-ACGIH			400		400	

1,2,4-TRIMETHYLBENZENE									
Threshold Limit Value.									
Туре	Country	TWA/8h		STEL/15min					
		mg/m3	ppm	mg/m3	ppm				
WEL	UK		25						
OEL	IRL	100	20						
OEL	EU	100	20						
TLV-ACGIH		123	25						

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

TLV of solvent mixture: 262 mg/m3.

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

None required.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.



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EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

Auto-ignition temperature.

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type AX filter combined with a type P filter should be worn. (see standard EN 14387).

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance aerosol Colour Characteristic Odour characteristic Odour threshold. Not applicable. Not available. pH. Melting point / freezing point. Not available. Initial boiling point. Not applicable. Boiling range. Not available. Flash point. Not applicable. **Evaporation Rate** Not applicable. Flammability of solids and gases flammable gas Lower inflammability limit. Not available. Not available. Upper inflammability limit. Lower explosive limit. Not available. Upper explosive limit. Not available. Vapour pressure. Not available. Not available. Vapour density 0,817 Kg/l Relative density. Solubility insoluble Partition coefficient: n-octanol/water Not applicable.

Not available.

Decomposition temperature.

Viscosity

Not applicable.

Explosive properties

not applicable

Oxidising properties not applicable

9.2. Other information.

VOC (Directive 1999/13/EC): 48,99 % - 400,44 g/litre.

VOC (volatile carbon): 29,44 % - 240,64 g/litre.

SECTION 10. Stability and reactivity.

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

1-METHOXY-2-PROPANOL ACETATE: stable but with the air it may slowly develop peroxides that explode with an increase in temperature.

ACETONE: decomposes under the effect of heat.

N-BUTYL ACETATE: decomposes readily with water, especially when warm.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

XYLENE (MIXTURE OF ISOMERS): stable, but may develop violent reactions in the presence of strong oxidising agents such as sulphuric and nitric acids and perchlorates. May form explosive mixtures with the air.

1-METHOXY-2-PROPANOL ACETATE: may react violently with oxidising agents and strong acids and alkaline metals.

ETHYLBENZENE: reacts violently with strong oxidising agents and attacks various types of plastics. Can form explosive mixtures with the air.

ACETONE: risk of explosion on contact with: bromine trifluoride, difluoro dioxide, hydrogen peroxide, nitrosyl chloride, 2-methyl-1,3 butadiene, nitromethane, nitrosyl perchlorate. Can react dangerously with: potassium tert-butoxide, alkaline hydroxides, bromine, bromoform, isoprene, sodium, sulphur dioxide, chromium trioxide, chromyl chloride, nitric acid, chloroform, peroxymonosulphuric acid, phosphoryl chloride, chromosulphuric acid, fluorine, strong oxidising agents. Develops flammable gases with nitrosyl perchlorate.

N-BUTYL ACETATE: risk of explosion on contact with: strong oxidising agents. Can react dangerously with alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with the air.

10.4. Conditions to avoid.

Avoid overheating.

1-METHOXY-2-PROPANOL ACETATE: store in an inert atmosphere, sheletered from moisture because it hydrolises easily.



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ACETONE: avoid exposure to sources of heat and naked flames.

N-BUTYL ACETATE: avoid exposure to moisture, sources of heat and naked flames.

10.5. Incompatible materials.

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

1-METHOXY-2-PROPANOL ACETATE: oxidising agents, strong acids and alkaline metals.

ACETONE: acid and oxidising substances.

N-BUTYL ACETATE: water, nitrates, strong oxidising agents, acids and alkalis and potassium tert-butoxide.

10.6. Hazardous decomposition products.

ETHYLBENZENE: methane, styrene, hydrogen, ethane. ACETONE: ketenes and other irritating compounds.

SECTION 11. Toxicological information.

11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation.

Vapour inhalation may moderately irritate the upper respiratory trait. Contact with skin may cause slight irritation.

Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

XYLENE (MIXTURE OF ISOMERS): has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

1-METHOXY-2-PROPANOL ACETATE: the main way of entry is the skin, whereas the respiratory way is less important owing to the low vapour tension of the product. Concentrations above 100 ppm cause eye irritation, nose and oropharynx. At 1000 ppm disturbance in the equilibrium and severe eye irritation is observed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and ocular irritation on direct contact. No chronic effects have been reported in man.

ETHYLBENZENE: like the benzene homologues, may exert an effect on the CNS with depression, narcosis, often preceded by dizziness and accompanied by headache. It is irritating to the skin, conjunctivae and respiratory apparatus.

N-BUTYL ACETATE:in humans the substance's vapours cause irritation to the eues and nose. In the event of repeated exposure, there is skin irritation, dermatosis (with driness and flaking of the skin) and keratitis.

XYLENE (MIXTURE OF ISOMERS) LD50 (Oral). 3523 mg/kg Rat LD50 (Dermal). 4350 mg/kg Rabbit LC50 (Inhalation). 26 mg/l/4h Rat

BARIUM SULFATE LD50 (Oral). > 3000 mg/kg Mouse 1-METHOXY-2-PROPANOL ACETATE LD50 (Oral). 8530 mg/kg Rat LD50 (Dermal). > 5000 mg/kg Rat

ETHYLBENZENE

LD50 (Oral). 3500 mg/kg Rat

LD50 (Dermal). 15354 mg/kg Rabbit

LC50 (Inhalation). 17,2 mg/l/4h Rat

N-BUTYL ACETATE

LD50 (Oral). > 6400 mg/kg Rat

LD50 (Dermal). > 5000 mg/kg Rabbit

LC50 (Inhalation). 21,1 mg/l/4h Rat

Idrocarburi n-alcani,isoalcani,ciclici,aromatici

LD50 (Oral). > 15000 mg/kg ratto

LD50 (Dermal). > 3400 mg/l coniglio

LC50 (Inhalation). > 13,1 mg/l ratto

SECTION 12. Ecological information.

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil, sewers and waterways. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

12.1. Toxicity.

Idrocarburi n-alcani,isoalcani,ciclici,aromatici LC50 - for Fish. < 30 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea. < 22 mg/l/48h Daphnia magna EC50 - for Algae / Aquatic Plants. < 10 mg/l/72h Pseudokirchneriella subcapitata Chronic NOEC for Algae / Aquatic Plants. < 0,09 mg/l Daphnia magna

12.2. Persistence and degradability.

Information not available.

12.3. Bioaccumulative potential.

Information not available.

12.4. Mobility in soil.

Information not available.

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0.1%.

12.6. Other adverse effects.

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Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Avoid littering. Do not contaminate soil, sewers and waterways.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

Road and rail transport:

Packing Group:

	ADR/RID Class:	2	UN:	1950
2	Packing Group:	-		
	Label:	2.1		
	Nr. Kemler:			
	Limited Quantity.	1 L		
	Tunnel restriction code.	(D)		
	Proper Shipping Name:	AEROSOLS, FLAMI	MABLE	
Carriage	by sea (shipping):			
	IMO Class:	2.1	UN:	1950
2				

	Label:		2.1		
	EMS:		F-D, S-U		
	Marine Pollutant.		NO		
	Proper Shipping Name:		AEROSOLS		
Transpo	rt by air:				
	IATA:		2	UN:	1950
2	Packing Group:		-		
	Label:		2.1		
	Cargo:				
	Packaging instructions:		203	Maximum quantity:	150 Kg
	Pass.:				
	Packaging instructions:		203	Maximum quantity:	75 Kg
	Special Instructions:		A145, A167, A802		
	Proper Shipping Name:		AEROSOLS, FLAMMA	ABLE	
SECTI	ION 15. Regulatory	information.			
	3.7.7.7				
15.1. Sat	fety, health and environme	ental regulations/leg	gislation specific for the	e substance or mixture.	
Seveso o	category.	8			
Restriction	s relating to the product or c	ontained substances	pursuant to Annex XVII	to EC Regulation 1907/2006.	
Contained	substance.				
Point.		28-29	NAPHTA (PETRO HYDROTREATED HEAVY		

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisarion (Annex XIV REACH).



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None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Gas 1 Flammable gas, category 1

Aerosol 1 Aerosol, category 1

Aerosol 3 Aerosol, category 3

Flam. Liq. 2 Flammable liquid, category 2

Flam. Liq. 3 Flammable liquid, category 3

Flam. Sol. 1 Flammable solid, category 1

Acute Tox. 4 Acute toxicity, category 4

STOT RE 1 Specific target organ toxicity - repeated exposure, category 1

Asp. Tox. 1 Aspiration hazard, category 1

Eye Irrit. 2 Eye irritation, category 2

Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

H220 Extremely flammable gas.

H222 Extremely flammable aerosol.

H229 Pressurized container: may burst if heated.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H228 Flammable solid.

H261 In contact with water releases flammable gases.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

R10 FLAMMABLE.

R11 HIGHLY FLAMMABLE.



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R12 EXTREMELY FLAMMABLE.

R15 CONTACT WITH WATER LIBERATES EXTREMELY FLAMMABLE GASES.

R20 HARMFUL BY INHALATION.

R20/21 HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.

R36 IRRITATING TO EYES.

R36/37/38 IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

R37 IRRITATING TO RESPIRATORY SYSTEM.

R38 IRRITATING TO SKIN.

R48/20 HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED

EXPOSURE THROUGH INHALATION.

R51/53 TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE

EFFECTS IN THE AQUATIC ENVIRONMENT.

R52/53 HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE

EFFECTS IN THE AQUATIC ENVIRONMENT.

R65 HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.

REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.

R67 VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit

- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation.

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- 12. Patty Industrial Hygiene and Toxicology
- 13. N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- 14. ECHA website

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:

The following sections were modified:

02/03/04/05/06/07/08/09/10/11/12/13/14/15/16.