

Revision nr. 1 Dated 8/6/2013

LO-1558 WS - RARALKYD LO-1558 WS

Printed on 17/06/2013

Page n. 1/12

	Safety data sheet
SECTION 1. Identification of the sub	stance/mixture and of the company/undertaking
1.1. Product identifier	
Code: Product name	LO-1558 WS RARALKYD LO-1558 WS
1.2. Relevant identified uses of the substance or r	mixture and uses advised against
Intended use	Alkyd Resin / Decorative and Industrial Coatings
1.3. Details of the supplier of the safety data shee	•
Name	RAR Resin & Chemical Industries JLT
Full address District and Country	11th Floor - One Lake Plaza, Jumeirah Lakes Towers 971 Dubai UAE
	Tel. 00971 4 4356517
	Fax 00971 4 4356518
e-mail address of the competent person	
responsible for the Safety Data Sheet Product distribution by	technical@rarresin.com,info@rarresin.com Supplier/ Exporter:RAR Resin & Chemical Industries JLT
1.4. Emergency telephone number	
For urgent inquiries refer to	0097144356517, 00971555594056
SECTION 2. Hazards identification.	
2.1. Classification of the substance or mixture.	
supplements). The product thus requires a safety datas	provisions set forth in Directives 67/548/EEC and 1999/45/EC (and subsequent amendments and sheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Ith and/or the environment are given in sections 11 and 12 of this sheet.

Danger Symbols: Xn-N R phrases: 10-51/53-65-66-67

### 2.2. Label elements.

Hazard labelling pursuant to Directives 67/548/EEC and 1999/45/EC and subsequent amendments and supplements.



HARMFU

R10



DANGEROUS FOR THE ENVIRONMENT FLAMMABLE.

& chemical industries	RAF	R Resin & C	Т	Revision nr. 1 Dated 8/6/2013	
	LO-1	1558 WS - R	S	Printed on 17/06/2013 Page n. 2/12	
R51/53		RGANISMS, MAY	CAUSE LONG-TERM ADVERSE E	FFECTS	IN THE AQUATIC
R65	ENVIRONMENT. HARMFUL: MAY CAUSI				
R66	REPEATED EXPOSURE	E MAY CAUSE SK	IN DRYNESS OR CRACKING.		
R67 S29	VAPOURS MAY CAUSE DO NOT EMPTY INTO I		ND DIZZINESS.		
S43	IN CASE OF FIRE, USE	USE FOAM, DRY	Y CHEMICAL OR CARBON DIOXI	DE(CO2) .	DO NOT USE STRAIGHT
S61 S62		HE ENVIRONMEN OT INDUCE VOMI	T. REFER TO SPECIAL INSTRUC ITING: SEEK MEDICAL ADVICE IN		
Contains:	Hydrocarbons, C9-C12,	n-alkanes, isoalkai	nes, cyclics, aromatics (2-25%)		
2.3. Other hazards.					
formation not available.					
<b>SECTION 3. Com</b>	position/informati	on on ingred	ients.		
3.1. Substances.					
nformation not relevant.					
3.2. Mixtures.					
ontains:					
Identification. Hydrocarbons, C9-C12, cyclics, aromatics (2-25%		Conc. %.	Classification 67/548/EEC.	Classif	ication 1272/2008 (CLP).
CAS	•)	42.5 - 45	R10, R66, R67, Xn R65, N R51/53	Flam. Liq. H336 Ag	3 H226, Asp. Tox. 1 H304, STOT SE 3 Jatic Chronic 2 H411
EC. 919-446-0				1000,744	
INDEX					
Reg. no. 01-211945804	9-33				
XYLENE (MIXTURE OF	SOMERS)				
CAS. 1330-20-7		1 - 1.5	R10, Xn R20/21, Xi R38, Note C		3 H226, Acute Tox. 4 H312, Acute Tox. kin Irrit. 2 H315, Note C
EC. 215-535-7					
ETHYLBENZENE		0.35 - 0.4	F R11, Xn R20	Flam. Liq.	2 H225, Acute Tox. 4 H332
INDEX. 601-022-00-9 ETHYLBENZENE CAS. 100-41-4 EC. 202-849-4					



Revision nr. 1 Dated 8/6/2013

# LO-1558 WS - RARALKYD LO-1558 WS

Printed on 17/06/2013

# Page n. 3/12

#### 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

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

#### 5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Excess pressure may form in containers exposed to fire at a risk of explosion. 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. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

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.

FOR LIQUID PRODUCTS: Block the leakage if there is no hazard. FOR SOLID PRODUCTS:

If there are no contraindications, spray powder with water to prevent the formation of dust. Avoid breathing vapours/mists/gases. Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.



Revision nr. 1 Dated 8/6/2013

Page n. 4/12

# LO-1558 WS - RARALKYD LO-1558 WS

Printed on 17/06/2013

Send away individuals who are not suitably equipped. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

#### 6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

FOR LIQUID PRODUCTS: Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

FOR SOLID PRODUCTS: Use spark-proof mechanical equipment to collect the leaked product and place it in containers for recovery or disposal. If there are no contraindications, use jets of water to eliminate product residues.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 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.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

### 7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

#### 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



Revision nr. 1 Dated 8/6/2013

LO-1558 WS - RARALKYD LO-1558 WS

Printed on 17/06/2013

Page n. 5/12

						Pag	je n. 5/12	
Hudrosorbons CO C40			omotion (2.05%)	()				
Hydrocarbons, C9-C12, n-a Predicted no-effect concentration		nes, cyclics, are	omatics (2-25%	0)				
				VND				
Normal value for the atmosphere		20)						
Normal value for the food chain (		ig)		VND				
Normal value for the terrestrial co	ompartment			VND				
Normal value in fresh water				VND				
Normal value in marine water				VND				
Normal value for fresh water sed	iment			VND				
Normal value for marine water se	ediment			VND				
Normal value of STP microorgan	isms			VND				
Health - Derived no-effect I	evel - DNEL / D	MEL						
Route of exposure	Effects on consumers. Acute local	Acute systemic	Chronic local	Chronic	Effects on workers Acute local	Acute	Chronic local	Chronic
Oral.	VND	VND	VND	systemic 26 mg/kg/d	VND	systemic VND	VND	systemic VND
nhalation. Skin.	VND VND	VND VND	VND VND	71 mg/m3 26 mg/kg/d	VND VND	VND VND	VND VND	330 mg/m3 44 mg/kg/d
XYLENE (MIXTURE OF ISO	MERS)							
Threshold Limit Value.								
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
WEL	UK	220	50	441	100			
DEL	IRL	221	50	442	100	SKIN		
DEL	EU	221	50	442	100	SKIN		
TLV-ACGIH	-	434	100	651	150			
					100			
ETHYLBENZENE								
Threshold Limit Value.								
Туре	Country	TWA/8h		STEL/15min				
	-	mg/m3	ppm	mg/m3	ppm			
WEL	UK	441	100	552	125	SKIN		
OEL	IRL	442	100	884	200	SKIN		
OEL	EU	442	100	884	200	SKIN		
TLV-ACGIH	20	20	100	00 r	87	ORIN		
		20	100		07			
aond:								
egend:								
C) = CEILING ; INHAL = In	halable Fraction	· RESP = Res	nirable Fraction		Thoracic Frac	ction		
, selente , nume - III		, 11201 1100		. ,				
ND = hazard identified but no	DNEL/PNEC av	vailable ; NEA	= no exposure	expected ; N	NPI = no hazar	d identified.		
LV of solvent mixture: 525	5 mg/m3.							
0.0 <b>F</b>								
8.2. Exposure controls.								



Revision nr. 1 Dated 8/6/2013

# LO-1558 WS - RARALKYD LO-1558 WS

Printed on 17/06/2013

Page n. 6/12

As the use of adequate technical equipment must always take priority over personal protection equipment, make sure that the workplace is well aired through effective local aspiration. Personal protection equipment must comply with the rules in force indicated below.

#### HAND PROTECTION

Protect hands with category II (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in PVC, neoprene, nitryl or equivalent. The following should be considered when choosing work glove material: degradation, breakage times and permeation. Work glove resistance to preparations should be checked before use, as it can be unpredictable. Gloves' limit depends on the duration of exposure.

#### EYE PROTECTION

Wear protective airtight goggles (ref. standard EN 166).

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (ref. Directive 89/686/CEE and standard EN 344). Wash body with soap and water after removing overalls.

#### RESPIRATORY PROTECTION

If the threshold value (if available) for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection service is exceeded, wear a mask with an A or universal filter, the class (1, 2 or 3) of which must be chosen according to the limit concentration of use (ref. standard EN 141).

The use of respiratory tract protection equipment, such as masks like that indicated above, is necessary to reduce worker exposure in the absence of technical measures. The protection provided by masks is in any case limited.

If the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in the event of an emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% volume, wear self-contained, open-circuit compressed air breathing apparatus (ref. standard EN 137) or fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece (ref. standard EN 138).

An emergency eye washing and shower system must be provided.

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

#### ENVIRONMENTAL EXPOSURE CONTROLS.

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.



Revision nr. 1 Dated 8/6/2013

Page n. 7/12

# LO-1558 WS - RARALKYD LO-1558 WS

Printed on 17/06/2013

Viscosity Explosive properties Oxidising properties Y - Z (Gardner Scale @ 25°C) Not available. Not available.

#### 9.2. Other information.

 Solid content.
 55.00 %

 VOC (Directive 1999/13/EC):
 45.00 %
 419.51 g/litre.

 VOC (volatile carbon):
 40.68 %
 379.27 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.

### 10.2. Chemical stability.

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

### 10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

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

#### 10.4. Conditions to avoid.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

10.5. Incompatible materials.

Information not available.

10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

ETHYLBENZENE: methane, styrene, hydrogen, ethane.

## **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. The introduction of even small quantities of this liquid into the respiratory system in case of ingestion or vomit may cause bronchopneumonia and



Revision nr. 1

Dated 8/6/2013

# LO-1558 WS - RARALKYD LO-1558 WS

Printed on 17/06/2013 Page n. 8/12

#### pulmonary edema.

This product may have a degreasing action on the skin, producing dryness and chapped skin after repeated exposure. This product contains highly volatile substances, which may cause serious depression of the central nervous system (CNS) and have negative effects, such as drowsiness, dizziness, slow reflexes, narcosis.

Vapour concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects. Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

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

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.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) LD50 (Oral). > 5000 mg/kg LD50 (Dermal). > 4 ml/kg LC50 (Inhalation). > 13.1 mg/l

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

ETHYLBENZENE LD50 (Oral). 3500 mg/kg Rat LD50 (Dermal). 15354 mg/kg Rabbit LC50 (Inhalation). 17.2 mg/l/4h Rat

# **SECTION 12. Ecological information.**

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it may even have negative effects on acquatic environment.

The information given is based on data available for the material, the components of the material, and similar materials. **12.1. Toxicity.** 

HYDROCARBONS, C9-C12, n-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%)--> Expected to be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

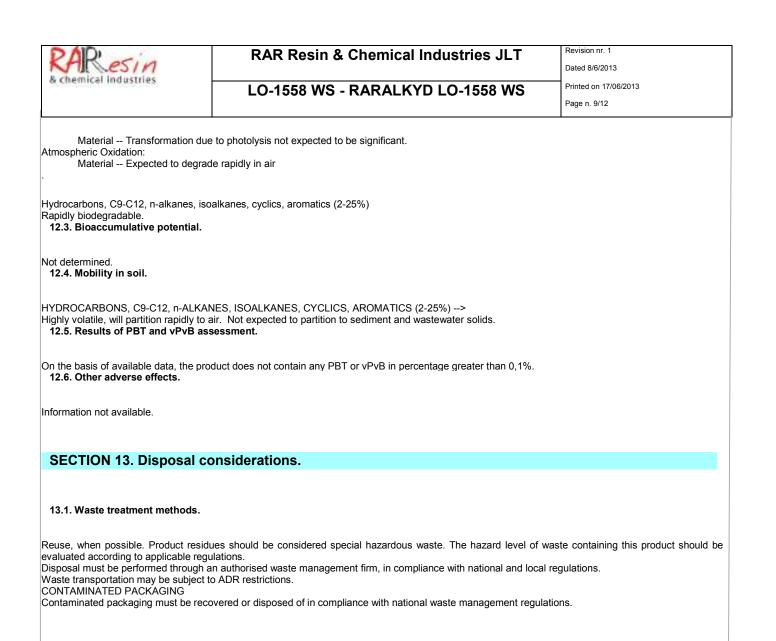
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) LC50 (96h). > 10 mg/l EC50 (48h). > 10 mg/l IC50 (72h). > 4.6 mg/l Chronic NOEC for Algae / Aquatic Plants. 0.097 mg/l

12.2. Persistence and degradability.

HYDROCARBONS, C9-C12, n-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%) Biodegradation: Material -- Expected to be readily biodegradable. Hydrolysis:

Material -- Transformation due to hydrolysis not expected to be significant.

Photolysis:



## **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.

UN:

Road and rail transport:	
--------------------------	--

ADR/RID Class:	3
Packing Group:	III
Label:	3
Nr. Kemler:	30
Limited Quantity.	5 L
Tunnel restriction code.	(D/E)
Proper Shipping Name: Special Provision:	RESIN SOLUTION 640E
	Packing Group: Label: Nr. Kemler: Limited Quantity. Tunnel restriction code. Proper Shipping Name:

1866

RAResin		RAR Re	sin & Che	Revision nr. 1 Dated 8/6/2013	
& chemic	al industries	LO-1558	WS - RAF	RALKYD LO-1558 WS	Printed on 17/06/2013 Page n. 10/12
Carriage	by sea (shipping):				•
	IMO Class:		3	UN:	1866
***	Packing Group:		Ш		
	Label:		3		
XX -	EMS:		F-E ,	<u>S-E</u>	
	Marine Pollutant.		YES		
	Proper Shipping Name:		RESIN SOLUT aromatics (2-2	FION (Hydrocarbons, C9-C12, n-alkar 5%))	nes, isoalkanes, cyclics,
Transport	t by air:				
- Me	IATA:		3	UN:	1866
	Packing Group:		III		
•	Label:		3		
	Cargo:				
	Packaging instructions: Pass.:		366	Maximum quantity:	220 L
	Packaging instructions:		355	Maximum quantity:	60 L
	Special Instructions:		A3	· •	
	Proper Shipping Name:		RESIN SOLUT	ΓΙΟΝ	
15.1. Safe		ental regulations/leg	islation specifi	c for the substance or mixture.	
	ety, health and environme		islation specifi	c for the substance or mixture.	
15.1. Safe <u>Seveso ca</u>	ety, health and environme	ental regulations/leg 9ii, 6		c for the substance or mixture. nex XVII to EC Regulation 1907/2006.	
15.1. Safe Seveso ca Restrictions Product.	ety, health and environme	ental regulations/leg 9ii, 6 contained substances			
15.1. Safe Seveso ca Restrictions	ety, health and environme	ental regulations/leg 9ii, 6			
<b>15.1. Safe</b> <u>Seveso ca</u> Restrictions <u>Product.</u> Point.	ety, health and environme	ental regulations/leg 9ii, 6 contained substances 3 - 40			
15.1. Safe Seveso ca Restrictions Product. Point. Substances	ety, health and environme ategory. relating to the product or c	ental regulations/leg 9ii, 6 contained substances 3 - 40			
15.1. Safe Seveso ca Restrictions Product. Point. Bubstances None.	ety, health and environme ategory. relating to the product or c	ental regulations/leg 9ii, 6 contained substances 3 - 40 <u>REACH).</u>			
15.1. Safe Seveso ca Restrictions Product. Point. Gubstances None.	ety, health and environme ategory. relating to the product or c in Candidate List (Art. 59 F	ental regulations/leg 9ii, 6 contained substances 3 - 40 <u>REACH).</u>			
15.1. Safe Seveso ca Restrictions Product. Point. Substances None.	ety, health and environme ategory. relating to the product or c in Candidate List (Art. 59 F	ental regulations/leg 9ii, 6 contained substances 3 - 40 REACH).	pursuant to Anr	nex XVII to EC Regulation 1907/2006.	
15.1. Safe Seveso ca Restrictions Product. Point. Substances None.	ety, health and environme ategory. relating to the product or c in Candidate List (Art. 59 F subject to authorisarion (A	ental regulations/leg 9ii, 6 contained substances 3 - 40 REACH).	pursuant to Anr	nex XVII to EC Regulation 1907/2006.	
15.1. Safe	ety, health and environme ategory. relating to the product or c in Candidate List (Art. 59 F subject to authorisarion (A	ental regulations/leg 9ii, 6 contained substances 3 - 40 REACH). nnex XIV REACH).	pursuant to Anr	nex XVII to EC Regulation 1907/2006.	
15.1. Safe	ety, health and environme ategory. relating to the product or o in Candidate List (Art. 59 F subject to authorisarion (A subject to exportation repo subject to the Rotterdam (	9ii, 6 9ii, 6 contained substances 3 - 40 REACH). nnex XIV REACH). orting pursuant to (EC	pursuant to Anr	nex XVII to EC Regulation 1907/2006.	
15.1. Safe Seveso ca Restrictions Product. Point. Substances None. Substances None. Substances None. Substances None. Substances None.	ety, health and environme ategory. relating to the product or c in Candidate List (Art. 59 F subject to authorisarion (A subject to exportation repo	9ii, 6 9ii, 6 contained substances 3 - 40 REACH). nnex XIV REACH). orting pursuant to (EC	pursuant to Anr	nex XVII to EC Regulation 1907/2006.	
15.1. Safe Seveso ca Restrictions Product. Point. Substances None. Substances None. Substances None. Substances None. Substances None.	ety, health and environme ategory. relating to the product or o in Candidate List (Art. 59 F subject to authorisarion (A subject to exportation repo subject to the Rotterdam (	9ii, 6 9ii, 6 contained substances 3 - 40 REACH). nnex XIV REACH). orting pursuant to (EC	pursuant to Anr	nex XVII to EC Regulation 1907/2006.	
15.1. Safe	ety, health and environme ategory. relating to the product or o in Candidate List (Art. 59 F subject to authorisarion (A subject to exportation repo subject to the Rotterdam (	9ii, 6 9ii, 6 contained substances 3 - 40 REACH). nnex XIV REACH). orting pursuant to (EC	pursuant to Anr	nex XVII to EC Regulation 1907/2006.	



LO-1558 WS - RARALKYD LO-1558 WS

Printed on 17/06/2013

# Page n. 11/12

### 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:

- 1		
	Flam. Liq. 2	Flammable liquid, category 2
	Flam. Liq. 3	Flammable liquid, category 3
	Acute Tox. 4	Acute toxicity, category 4
	Asp. Tox. 1	Aspiration hazard, category 1
	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
	H225	Highly flammable liquid and vapour.
	H226	Flammable liquid and vapour.
	H312	Harmful in contact with skin.
	H332	Harmful if inhaled.
	H304	May be fatal if swallowed and enters airways.
	H315	Causes skin irritation.
	H336	May cause drowsiness or dizziness.
	H411	Toxic to aquatic life with long lasting effects.
	Text of risk (R) phrases m	entioned in section 2-3 of the sheet:
	R10	FLAMMABLE.
	R11	HIGHLY FLAMMABLE.
	R20	HARMFUL BY INHALATION.
	R20/21	HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.
	R38	IRRITATING TO SKIN.
	R51/53	TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
	R65	HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.
	R66	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



Revision nr. 1 Dated 8/6/2013

LO-1558 WS - RARALKYD LO-1558 WS

Printed on 17/06/2013

Page n. 12/12

### 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.

### GENERAL BIBLIOGRAPHY

- 1. Directive 1999/45/EC and following amendments
- 2. Directive 67/548/EEC and following amendments and adjustments
- 3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- Regulation (EC) 1272/2008 (CLP) of the European Parliament
   Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 6. Regulation (EC) 453/2010 of the European Parliament
- 7. Regulation (EC) 286/2011 (II Atp. CLP) of the European Parliament
- 8. The Merck Index. 10th Edition
- 9. Handling Chemical Safety 10. Niosh Registry of Toxic Effects of Chemical Substances
- 11. INRS Fiche Toxicologique (toxicological sheet)
- 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.