

SECTIO	ON 1. Identification of the sub	
		ostance/mixture and of the company/enterprise
1.1	Indentification	
-	Code	ESS26102013EME
-	Product name	OIÈ RESSENZA EMERALD
-	Description	Super-concentrated watery mixture of natural and synthetic substances with
	Description	polyvalent function.
1.2	Recommended use and restri	ictions on use
-		Professional use only.
	Use:	To be used for detergency, sanitation, deodorization, fragrance giving and dust
		removal from surface and environments.
		Usage: 1 spray (1 ml) of product in 1 l of water to clean and deodorize any washable
		surface; 1 spray into drains to neutralize unpleasant odours; sprayed one time on a
		rug to dust furniture, furnishings and frequently used objects.
		RESTRICTIONS ON USE:
		DO NOT vaporize pure in the environment, but vaporize it from a distance of 20 cm
		on a surface/rug/water container to minimize a possible insurgence of respiratory
		allergenic reaction.
		DO NOT breath directly the vapour or the aerosol of pure product.
		It is recommended NOT use the product for purposes other than those provided.
1.3	Details of the safety data she	
	Name	RUBINO CHEM S.r.l.
	Full address	Via Vigili del Fuoco Caduti in Servizio, 14/s INT.4
	District and Country	70026 Modugno
		tel. (+39) 080 5035348
		Fax (+39) 080 5008545
	E-mail of the responsible person for the Safety Data Sheet	customerservice@rubinochem.it_
	Manufacturer	RUBINO CHEM S.r.l.
1.4	Emergency telephone number	er en
	Emergency terephone number	
		United Kingdom:
	For urgent inquiries:	NHS 111 service if you urgently need medical help or advice but it's not a life-
		threatening situation. For immediate, life-threatening emergencies, continue to call
		999.
SECTIO	ON 2. Hazards identification	
2.1	Classification of the substance	ce or mixture
	subsequent amendments and supplem EC Regulation 1907/2006 and subset	dous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and nents). The product thus requires a safety datasheet that complies with the provisions of quent amendments. ing the risks for health and/or the environment are given in sections 11 and 12 of this



	Hazard classification and	l indication:				
	Skin sensitization, categ	jory 1	H317	May cause an	allergic skin reaction.	
	Hazardous to the aquati	c environment,	H412	Harmful to ac	quatic life with long lasting effects.	
	chronic toxicity, categor	y 3				
2.2	Label elements.					
	Hazard labelling pursuar	nt to EC Regulat	tion 1272/2008 (CLP)	and subsequent amen	dments and supplements.	
	Hazard pictograms:		•			
			$\langle \cdot \rangle$			
			Warning			
	-	Signal words:				
	Hazard statements:					
		H317	May cause an allergi			
		H412	-	ife with long lasting e		
	EUH208		Contains: Benzyl Salicylate, Hexyl Cinnamal, Coumarin, Alpha Isomethyl			
			Ionone, Citronellol, Limonene, Eugenol, Linalool, Tetramethyl			
			Acetyloctahydronaphthalenes, Hexyl Salicylate, 4-Tert-butylcyclohexyl Acetate			
	May produce an allergic reaction.					
	Precautionary statements	8:				
	P102	Keep out of th	ne reach of children. ng vapours and spray. ve gloves.			
	P261	Avoid breathir				
	P280	Wear protectiv				
	P302+P352	IF ON SKIN:	Wash with plenty of w	ater.		
	P333+P313+P312		on or rash occurs: Get i	nedical advice / atten	tion. Call a POISON CENTER if you	
	D2(2+D2(4	feel unwell.	· · · · · · · · · · · · · · · · · · ·	1.41.0		
	P362+P364		minated clothing and			
	P501	Dispose of cor	ntents/container in acco	ordance to national la	W.	
2.3	Other hazards.					
	On the basis of available	data, the produ	ct does not contain any	PBT or vPvB in per	centage greater than 0,1%.	
<b>ODO</b>			• • •			
SECI	<b>FION 3.</b> Composition/i	nformation (	on ingredients			
3.1	Substances					
5.1	Irrelevant information. The product is a mixture.					
3.2	Mixtures	1 ···				
5.4	Contains:					
	Identification		Concentrat	ion (%)	Classification	
			201001010	- (/-)	EC 1272/2008 (CLP)	
					(	



Reaction Mass of 1-(1,2,3,4,5,6,7,8- octahydro-2,3,8,8-tetramethyl-2- naphthyl)ethan-1-one and 1- (1,2,3,4,6,7,8,8a-octahydro-2,3,8,8- tetramethyl-2-naphthyl)ethan-1- one and 1-(1,2,3,5,6,7,8,8a- octahydro-2,3,8,8-tetramethyl-2- naphthyl)ethan-1-one           CAS / CE           CAS /           CE           915-730-3	2-3	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 1 H410
HEXYL SALICYLATE           CAS         6259-76-3           CE         228-408-6	0,5 - 1	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 1 H410
Benzyl Salicylate           CAS         118-58-1           CE         204-262-9	0,5 - 1	Skin Sens. 1 H317, Aquatic Chronic 3 H412 Eye Irrit. 2 H319
Hexamethylindanopyran           CAS         1222-05-5           CE         214-946-9	0,5 - 1	Aquatic Chronic 1 H410 Aquatic Acute 1 H400 M=1,
Quaternary ammonium compounds, benzyl-C12-14 (even-numbered)- alkyldimethyl, chloridesCAS68424-85-1CE207-325-2	0,25 - 0,5	Acute Tox. 4 H302, Skin Corr. 1B H314, Aquatic Acute 1 H400 M=1 Aquatic Chronic 1 H410
2,2,2-trichloro-1-phenylethyl acetate           CAS         90-17-5           CE         201-972-0	0,1-0,5	Aquatic Chronic 3 H412
Alpha Hexyl Cinnamic aldehydeCAS101-86-0CE202-983-3	0,1-0,5	Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1 Aquatic Chronic 2 H411
Cumarina           CAS         91-64-5           202-086-7           CE	0,1-0,5	Skin Sens. 1 H317 Harmful if swallowed H302 Aquatic Chronic 3 H412
METHYL IONONE GAMMA           CAS         1335-46-2           215-635-0         215-635-0	0,1-0,5	Aquatic Chronic 2 H411 Eye Irrit. 2 H319 Skin Irrit. 2 H315,



	1-(5,6,7,8-tetrah	ydro-3,5,5,6,8,8-				
	hexamethyl-2-na	aphthyl)ethan1-one	0,1-0,5	Aquatic Chronic 1 H410 Aquatic Acute 1 H400 M=1,		
	CAS 1506-02-1		0,1-0,5	Harmful if swallowed H302		
	CE 216-133-	.4		Hammur II Swanowed 11502		
	4-tert-butylcycloh	exvl acetate				
	CAS 32210-23		0,1-0,5	Skin Sens. 1 H317		
	CE 250-954-	.9	- 7 - 7-			
	1,2,3,5,6,7-hexahydro-1,1,2,3,3- pentamethyl-4H-inden-4-one			Skin Irrit. 2 H315, Skin Sens. 1 H317		
	CAS 33704-61			Eye Irrit. 2 H319		
	CE 251-649-	.3	0,1-0,5	Aquatic Chronic 2 H411		
	Linalolo			Skin Irrit. 2 H315,		
	CAS 78-70-6		<0,1	Skin Int. 2 H313, Skin Sens. 1 H317		
	CAS 78-70-0 CE 201-134-	.4	<b>&gt;</b> 0,1	Eye Irrit. 2 H319		
		t is not included into the	e range			
			s given in section 16 of the sheet.			
SECT	ION 4. First aid	measures				
4.1	Description of	f first aid measure				
1.1	EYES	opening the eyelids fu	nove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, ning the eyelids fully. If problem persists, seek medical advice.			
	SKIN	immediately. Wash co	ove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention ediately. Wash contaminated clothing before using it again.			
	INHALATION	advice/attention imme				
	INGESTION	Get medical advice/a explicitly authorized l		e vomiting. Do not administer anything not		
4.0	Most importa	nt symptoms and	effects (acute and delayed)			
4.2			contained substances, see chap. 11.			
	Indication in	case of emergency	of medical and special treatm	ents		
4.3	Information not a		of incurcar and special treatm			
SECT	ION 5. Firefight	ting measures				
	Extinguishing	<u> </u>				
5.1	SUITABLE		substances are: carbon dioxide and ch	nemical powder. For product loss or leakage		
	EXTINGUISHI	0 0		lisperse flammable vapours and protect those		
		· · · · · ·		separate manimulate supports and protect mose		
	EQUIPMEN	1				
	UNSUITABL	5		mand to appl containers and to 0.		
	EXTINGUISHI			used to cool containers exposed to flames to		
	EQUIPMEN	Γ prevent explosion	ons.			
5.2			e substance or mixture			
5.4	HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE					
		If large quantities of the product are involved in a fire, they can make it considerably worse. Do not breathe combustion				
	products.					
	Advice for fir	efighters				
		8				



5.3	GENERAL INFORMATION In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS Normal firefighting 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).
SECTI	ON 6. Accidental release measures
6.1	Personal precautions, protective equipment and emergency procedures Block the leakage if there is no hazard. 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.
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         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.         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.
SECTI	ON 7. Handling and storage
7.1	<b>Precautions for safe handling</b> 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.
SECTI	ON 8. Exposure controls/personal protection
8.1	Control parameters Information not available.
8.2	<b>Exposure controls</b> 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 eve wash station



HAND PROTECTION

#### Protect hands with category III work gloves (see standard EN 374). The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use. **SKIN PROTECTION** Wear category II 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. **RESPIRATORY PROTECTION** If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. 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. If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. **EYE PROTECTION** Wear airtight protective goggles (see standard EN 166). ENVIRONMENTAL EXPOSURE CONTROLS The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards. Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

### **SECTION 9. Physical and chemical properties.**

9.1	Information on basic physical and chemical properties		
	Appearance	WHITE LIQUID	
	Odour	SCENTS	
	Odour threshold	Not available	
	pH	6.6± 0.1	
	Meltingpoint / freezingpoint	Not available	
	Initial boiling point or boling range	$100.5 \pm 0.5$ (°C)	
	Flash point	> 60 °C	
	Evaporation rate	Not available.	
	Flammability (solid, gas)	Not available.	
	Upper/ Lower inflammability or	Not available.	
	explosive limit		
	Vapour pressure	Not available.	
	Vapour density	$1.003 \pm 0.001$	
	Relative density	Not available.	
	Solubility	Solubility in water	
	Partition coefficient: n-octanol/water	Not available.	
	Auto-ignition temperature	Not available.	
	Decomposition temperature	Not available	
	Viscosity	$1.8 \pm 0.1$	
	Explosive properties	Not available.	
	Oxidising properties	Not available.	
9.2	Other information		
9.2	VOC (Directive 1999/13/CE)	$0.07 \pm 0.02$ (g COV / g sample)	
		(equal to: $7\% \pm 2\%$ )	



SECT	TION 10. Stability and read	ctivity.			
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.				
	No hazardous reactions are fo	reseeable in normal condi	tions of use and storage.		
10.4	Conditions to avoid.				
	None in particular. However t	he usual precautions used	for chemical products s	hould be respected.	
10.5	Incompatible materials	•			
	Information not available.				
10.6	Hazardous decompositi	on products.			
	Information not available.				
SECT	TION 11. Toxicological info	ormation			
11.1	Information on toxicolo	gical effects			
11.1	In the absence of experiment				
	substances it contains, using t take into account the conce				
	toxicological effects of exposi-			indicated in sec	tion 5, to evaluate the
	Upon contact with skin, this		on (dermatitis). Dermat	itis derives from sk	in irritation on the areas
	which repeatedly come into c				
	vesicles, pustules, scurvies, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness				
	and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness,				
	ulcerations and skin thickening prevail during the chronic phase. This product contains sensitizing substance/s and may cause allergic reactions.				
	Toxicological information about component substances:				
	Substance:				
	1-(1,2,3,4,5,6,7,8-OCTAHYD	RO-2,3,8,8-TETRAME	THYL-2-NAPHTHAL	ENYL)ETHANON	Е
	LD50 (Orale)	>5000 mg/kg Rat			
	LD50 (Dermal)	>5000 mg/kg Rabbit			
	Substance: HEXAHYDRO-HEXAMET	HYL-CYCLOPENTA-G	AMMA-2-BENZOPY	RAN CAS 1222-05	-5
	LD50 (Oral)	>3000 mg/kg rat			
	LD50 (Dermal) LC50(Inhalation)	>6500 mg/kg Rat >3000 mg/kg Rat			
SECT	<b>FION 12. Ecological inform</b>				
	oduct is dangerous for the environ		anisms with long torm a	anativa affasts on th	a aquatic anvironment
		intent and the aquatic orga		egative enects off th	
12.1	Toxicity HEXAHYDRO-HEXAMET	HYL- LC50	Fish	0,47 mg/l /96h	Lepomis macrochirus
			1 1511	0,77 mg/1/201	Esponns macroenn us
	CYCLOPENTA-GAMMA-2 Daphnia magna	-BENZOPYRAN	EC50	Dafnie	0,3 mg/l/48h
12.2	Persistence and degradabilit	y			
	Information not available.				



12.3	<b>Bioaccumulative potential</b>				
	1,3,4,6,7,8-HEXAHYDRO-4,6,6,7,8,8- HEXAMETHYLCYCLOPENTA-GAMMA-2 BENZOPYRAN	Partition coefficient: n-octanol/wa	ter. 2		
12.4	Mobility in soil	Mobility in soil			
	Information not available.				
12.5	Results of PBT and vPvB assessments				
	On the basis of available data, the product does	not contain any PBT or vPvB in percentage greate	er than 0,1%.		
12.6	Other adverse effects				
	Information notavailable				
SECT	FION 13. Disposal considerations.				
13.1	Waste treatment methods.				
	this product should be evaluated according to ap	be considered special hazardous waste. The hazard plicable regulations. horized waste management firm, in compliance			
		minated packaging must be recovered or disposed al waste management regulations.	d of in compliance with		
SECT	FION 14. Transport information.				
14.1	UN number Not applicable.				
14.2	UN proper shipping name				
11.2	Not applicable.				
14.3	Transport hazard class(es)				
	Not applicable.				
14.4	Packing group.				
	Not applicable.				
14.5	Environmental hazards				
	Not applicable.				
14.6	Special precautions for user           Not applicable.				
14.7	Transport in bulk according to Annex II of M Information not relevant.	ARPOL73/78 and the IBC Code			
SECT	<b>FION 15. Regulatory information</b>				
15.1	•	lations/legislation specific for the subst			
	Seveso Category	= 1 + 12 + 17 + 12 + 12 + 12 + 12 + 12 +	None		
	Restrictions on the product or substances contain	ea under Annex 17 Kegulation (EC) 1907/2006	Product: Point 3		
	Substances in Candidate List (Art. 59 REACH)		None		
	Substances subject to authorization (Exhibit XIV	· · · · · · · · · · · · · · · · · · ·	None		
	Substances subject to export notification duty Re	eg. (UE) 649/2012	None		



	Substances subject to the Rotterdam Convention None				
	Substances subject to the Stockholm Co		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.			
	Ingredients in accordance with Regulation CE N.648/2004	Non-ionic and cationic surfactants (<5%); Perfumes (   Perfumes: 	5%-15%); Alpha Isomethyl Ionone, ne (CAS 55965-84-9) e ) in compliance with with		
15.2	Chemical safety assessment				
	No chemical safety assessment has been	n processed for the mixture and the substances it contains			
SECT	<b>TION 16. Other information</b>				
	Text of hazard (H) indications mention	ad in gastion 2.2 of the sheat:			
	Acute Tox. 4	Acute toxicity, category 4			
	Eye Irrit. 2     Eye irritation, category 2				
	Skin Irrit. 2     Skin irritation, category 2				
	Skin Sens. 1     Skin sensitization, category 1				
	Skin Sens. 1A	Skin sensitization, category 1A			
	Aquatic Chronic 1Hazardous to the aquatic environment, chronic toxicity, category 1Aquatic Chronic 2Hazardous to the aquatic environment, chronic toxicity, category 2Aquatic Chronic 3Hazardous to the aquatic environment, chronic toxicity, category 3H302Harmful if swallowed.				
	H319	Causes serious eye irritation.			
	H315	Causes skin irritation.         May cause an allergic skin reaction.         Very toxic to aquatic life with long lasting effects.			
	H317				
	H410				
	H410 H411	Toxic to aquatic life with long lasting effects.			
	H412	Harmful to aquatic life with long lasting effects.			
		Training to aquate the with fong hours encous.			
	Legend:	1			
	· · ·	g the carriage of Dangerous goods by Road			
	- CAS NUMBER: Chemical Abstract S				
	- CE50: Effective concentration (requir				
	-CE NUMBER: Identifier in ESIS (Eur	opean archive of existing substances)			
	- CLP: EC Regulation 1272/2008				
	- DNEL: Derived No Effect Level				
	- EmS: Emergency Schedule				
		f classification and labelling of chemicals			
		rt Association Dangerous Goods Regulation			
	- IC50: Immobilization Concentration 5				
	- IMDG: International Maritime Code f				
	- IMO: International Maritime Organiza				
	- INDEX NUMBER: Identifier in Annex VI of CLP				



1	LC50: Lethal Concentration 50%					
	- LD50: Lethal concentration 30%					
	- 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					
- 1	WGK: Water hazard classes (German).					
G	ENERAL BIBLIOGRAPHY:					
1.						
2.						
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1.	. ECHA website					
Ν	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:					
Tl	he following sections were modified: All sections					