



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: MORAVIA - OPTIMA ANTIFOULING RED AF28-6620

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

Relevant uses: Paint. For professional user/industrial user only.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

MORAVÍA BOYA VE KÍMYA SAN.TÍC.LTD.STÍ FEVZİ ÇAKMAK CADDESİ NO:2 SEFAKÖY/ KÜÇÜKÇEKMECE **İSTANBUL - TURKEY** Phone.: +90 212 579 13 36 - Fax: +90 212 426 55 12 moravia@moravia.com.tr www.moravia.com.tr

1.4 **Emergency telephone number:**

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Acute Tox. 4: Acute toxicity, Category 4, H312+H332 Aquatic Acute 1: Hazardous to the aquatic environment, acute hazard, Category 1, H400 Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard, Category 1, H410 Flam. Liq. 3: Flammable liquids, Category 3, H226 Skin Irrit. 2: Skin irritation, Category 2, H315 Skin Sens. 1: Sensitisation, skin, Category 1, H317

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:



Hazard statements:

Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects Flam. Liq. 3: H226 - Flammable liquid and vapour Skin Irrit. 2: H315 - Causes skin irritation Skin Sens. 1: H317 - May cause an allergic skin reaction

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P271: Use only outdoors or in a well-ventilated area

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

Revised: 09/06/2020

P302+P352: IF ON SKIN: Wash with plenty of water

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing

P370+P378: In case of fire: Use ABC powder extinguisher to extinguish

P403+P235: Store in a well-ventilated place. Keep cool

P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively

Substances that contribute to the classification

Xylene; Rosin; Copper oxide; Zineb (ISO)

2.3 **Other hazards:**

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Non-applicable

3.2 Mixture:

Chemical description: Miscellaneous products

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

	Identification		Chemical name/Classification		Concentration	
CAS: EC: Index:	1330-20-7 215-535-7 601-022-00-9			ATP CLP00	10 - <25 %	
	01-2119488216-32- XXXX	Regulation 1272/2008	Acute 10x, 4, h5124h552, halli, biq. 5, h220, skill fill, 2, h515 - Walling	· ·		
CAS: EC:	8050-09-7 232-475-7	Rosin ⁽¹⁾	ATP CLP00			
Index:	650-015-00-7 01-2119480418-32- XXXX	Regulation 1272/2008	Skin Sens. 1: H317 - Warning	$\langle \rangle$	10 - <25 %	
CAS:	1317-38-0	Copper oxide ⁽¹⁾		Self-classified		
Index: (REACH: (215-269-1 029-016-00-6 01-2119502447-44- XXXX	Regulation 1272/2008	Acute Tox. 4: H332; Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning		10 - <25 %	
CAS: EC:	1111-67-7					
Index:	214-183-1 615-032-00-6 01-2120761603-56- XXXX		Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	Ł	10 - <25 %	
CAS:	1314-13-2	zinc oxide ⁽¹⁾ ATP CLP00				
	215-222-5 030-013-00-7 01-2119463881-32- XXXX	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	Ł	2,5 - <10 %	
CAS: EC:	123-86-4	N-butyl acetate ⁽¹⁾		ATP CLP00		
Index:	204-658-1 607-025-00-1 01-2119485493-29- XXXX	Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning	(1) (8)	2,5 - <10 %	
CAS: EC:	12122-67-7 235-180-1	Zineb (ISO) ⁽¹⁾ ATP CLP00				
Index:	006-078-00-2 Non-applicable	Regulation 1272/2008	Skin Sens. 1: H317; STOT SE 3: H335 - Warning	()	2,5 - <10 %	
CAS: EC:	61788-76-9	Alkanes, chloro ⁽¹⁾		Self-classified		
Index:	263-004-3 Non-applicable Non-applicable	Regulation 1272/2008	Aquatic Chronic 4: H413		1 - <2,5 %	

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.



SECTION 4: FIRST AID MEASURES (continued)

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂). IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions



SECTION 7: HANDLING AND STORAGE (continued)

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

- C.- Technical recommendations to prevent ergonomic and toxicological risks
 - Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.
- D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.:5 °CMaximum Temp.:30 °CMaximum time:6 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

Identification	Occupational exposure limits		
Xylene	IOELV (8h)	50 ppm	221 mg/m ³
CAS: 1330-20-7 EC: 215-535-7	IOELV (STEL)	100 ppm	442 mg/m ³

DNEL (Workers):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Xylene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	180 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	289 mg/m ³	289 mg/m ³	77 mg/m³	Non-applicable
Rosin	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 8050-09-7	Dermal	Non-applicable	Non-applicable	2,131 mg/kg	Non-applicable
EC: 232-475-7	Inhalation	Non-applicable	Non-applicable	Non-applicable	10 mg/m ³
zinc oxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1314-13-2	Dermal	Non-applicable	Non-applicable	83 mg/kg	Non-applicable
EC: 215-222-5	Inhalation	Non-applicable	Non-applicable	5 mg/m³	Non-applicable
N-butyl acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 123-86-4	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 204-658-1	Inhalation	960 mg/m ³	960 mg/m ³	480 mg/m³	480 mg/m ³

DNEL (General population):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Xylene	Oral	Non-applicable	Non-applicable	1,6 mg/kg	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	108 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	Non-applicable	Non-applicable	14,8 mg/m ³	Non-applicable



Safety data sheet According to 1907/2006/EC (REACH), 2015/830/EU

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

			Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local	
Rosin	Oral	Non-applicable	Non-applicable	1,065 mg/kg	Non-applicable	
CAS: 8050-09-7	Dermal	Non-applicable	Non-applicable	1,065 mg/kg	Non-applicable	
EC: 232-475-7	Inhalation	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
zinc oxide	Oral	Non-applicable	Non-applicable	0,83 mg/kg	Non-applicable	
CAS: 1314-13-2	Dermal	Non-applicable	Non-applicable	83 mg/kg	Non-applicable	
EC: 215-222-5	Inhalation	Non-applicable	Non-applicable	2,5 mg/m ³	Non-applicable	
N-butyl acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
CAS: 123-86-4	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
EC: 204-658-1	Inhalation	859,7 mg/m ³	859,7 mg/m ³	102,34 mg/m ³	102,34 mg/m ³	
PNEC:	-	-	•	-	•	
Identification						
	CTD	6 50	market and a		227	

Identification				
Xylene	STP	6,58 mg/L	Fresh water	0,327 mg/L
CAS: 1330-20-7	Soil	2,31 mg/kg	Marine water	0,327 mg/L
EC: 215-535-7	Intermittent	0,327 mg/L	Sediment (Fresh water)	12,46 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	12,46 mg/kg
Rosin	STP	1000 mg/L	Fresh water	0,002 mg/L
CAS: 8050-09-7	Soil	0 mg/kg	Marine water	0 mg/L
EC: 232-475-7	Intermittent	0,016 mg/L	Sediment (Fresh water)	0,007 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,001 mg/kg
Copper oxide	STP	0,23 mg/L	Fresh water	0,0078 mg/L
CAS: 1317-38-0	Soil	65 mg/kg	Marine water	0,0052 mg/L
EC: 215-269-1	Intermittent	Non-applicable	Sediment (Fresh water)	87 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	676 mg/kg
zinc oxide	STP	0,1 mg/L	Fresh water	0,0206 mg/L
CAS: 1314-13-2	Soil	35,6 mg/kg	Marine water	0,0061 mg/L
EC: 215-222-5	Intermittent	Non-applicable	Sediment (Fresh water)	117,8 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	56,5 mg/kg
N-butyl acetate	STP	35,6 mg/L	Fresh water	0,18 mg/L
CAS: 123-86-4	Soil	0,0903 mg/kg	Marine water	0,018 mg/L
EC: 204-658-1	Intermittent	0,36 mg/L	Sediment (Fresh water)	0,981 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0981 mg/kg

8.2 Exposure controls:

A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks					
Mandatory respiratory tract protection	Filter mask for gases and vapours		EN 405:2001+A1:2009	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.					
- Specific protectio	Specific protection for the hands								



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ION						
	Pictogram	PPE	Labelling	CEN Standard	Remarks	
	Mandatory hand protection	NON-disposable chemical protective gloves		EN ISO 374-1:2016 EN 16523-1:2015 EN 420:2003+A1:2009	The Breakthrough Time indicated by the manufacturer must exceed the period during the product is being used. Do not use protec creams after the product has come into con with skin.	
P	total reliability an	d has therefore to be ch			erial can not be predicted in advance w	
D	Ocular and facial Pictogram	PPE	Labelling	CEN Standard	Remarks	
	Mandatory face protection	Face shield		EN 166:2001 EN 167:2001 EN 168:2001 EN 150 4007:2018	Clean daily and disinfect periodically accordin the manufacturer 's instructions. Use if there risk of splashing.	
E	Body protection					
	Pictogram	PPE	Labelling	CEN Standard	Remarks	
	Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties	CAT III	EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994	For professional use only. Clean periodical according to the manufacturer's instructio	
	Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties		EN ISO 13287:2012 EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioratio	
F	Additional emerge	ency measures				
	Emergency mea	asure S	standards	Emergency measu	sure Standards	
	Emergency sho	ISO 3864-1:2	ISI Z358-1 011, ISO 3864-4:20)11 Eyewash station	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:201	
En	vironmental exp	1		,		
			for the protecti		s recommended to avoid environmenta	
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SEC	TION 9: PHYSICAL AND CHEMICAL PROPERTIES	S (continued)
	Odour:	Not available
	Odour threshold:	Non-applicable *
	Volatility:	
	Boiling point at atmospheric pressure:	135 °C
	Vapour pressure at 20 °C:	823 Pa
	Vapour pressure at 50 °C:	4435,99 Pa (4,44 kPa)
	Evaporation rate at 20 °C:	Non-applicable *
	Product description:	
	Density at 20 °C:	1470 - 1530 kg/m³
	Relative density at 20 °C:	1,47 - 1,53
	Dynamic viscosity at 20 °C:	1,56 cP
	Kinematic viscosity at 20 °C:	0,98 cSt
	Kinematic viscosity at 40 °C:	Non-applicable *
	Concentration:	Non-applicable *
	pH:	Non-applicable *
	Vapour density at 20 °C:	Non-applicable *
	Partition coefficient n-octanol/water 20 °C:	Non-applicable *
	Solubility in water at 20 °C:	Non-applicable *
	Solubility properties:	Non-applicable *
	Decomposition temperature:	Non-applicable *
	Melting point/freezing point:	Non-applicable *
	Explosive properties:	Non-applicable *
	Oxidising properties:	Non-applicable *
	Flammability:	
	Flash Point:	25 °C
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	421 °C
	Lower flammability limit:	Not available
	Upper flammability limit:	Not available
	Explosive:	
	Lower explosive limit:	Non-applicable *
	Upper explosive limit:	Non-applicable *
9.2	Other information:	
	Surface tension at 20 °C:	Non-applicable *
	Refraction index:	Non-applicable *
	*Not relevant due to the nature of the product, not providing info	mation property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:



			AF28-6620				
ECT	TION 10: STABILITY ANI	O REACTIVITY (contin	ued)				
	Applicable for handling and	l storage at room tempera	iture:				
	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity		
	Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable		
0.5	Incompatible materials	:					
	Acids	Water	Oxidising materials	Combustible materials	Others		
	Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases		
	See subsection 10.3, 10.4 complex mixtures of chemi compounds.						
SECT	TION 11: TOXICOLOGIC	AL INFORMATION					
1.1	Information on toxicolo	gical effects:					
	The experimental information	on related to the toxicolog	gical properties of the proc	duct itself is not available			
	Dangerous health impli	cations:					
	 In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limit adverse effects on health may result, depending on the means of exposure: A- Ingestion (acute effect): Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classifier as dangerous for consumption. For more information see section 3. Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting. 						
	vertigo, nausea, vomiti - Corrosivity/Irritabilit	, osure in high concentratio ng, confusion, and in seric y: Based on available data for inhalation. For more ii		sness.	-		
	 Contact with the eye 	for this effect. For more inicity, mutagenicity and to	a, the classification criteria nformation see section 3. oxicity to reproduction):				

IARC: Diiron trioxide (3); Zineb (ISO) (3); Xylene (3)

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.

- Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- Skin: Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.



SECTION 11: TOXICOLOGICAL INFORMATION (continued)

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

	Identification	A	cute toxicity	Genus	
N-butyl acetate		LD50 oral	12789 mg/kg	Rat	
CAS: 123-86-4		LD50 dermal	14112 mg/kg	Rabbit	
EC: 204-658-1		LC50 inhalation	23,4 mg/L (4 h)	Rat	
Xylene		LD50 oral	2100 mg/kg	Rat	
CAS: 1330-20-7		LD50 dermal	1100 mg/kg (ATEi)	Rat	
EC: 215-535-7		LC50 inhalation	11 mg/L (4 h) (ATEi)		
Rosin		LD50 oral	4100 mg/kg	Rat	
CAS: 8050-09-7		LD50 dermal	Non-applicable		
EC: 232-475-7		LC50 inhalation	Non-applicable		
zinc oxide		LD50 oral	7950 mg/kg	Mouse	
CAS: 1314-13-2		LD50 dermal	Non-applicable		
EC: 215-222-5		LC50 inhalation	Non-applicable		
Copper oxide		LD50 oral	Non-applicable		
CAS: 1317-38-0		LD50 dermal	Non-applicable		
EC: 215-269-1		LC50 inhalation	11 mg/L (4 h) (ATEi)		

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Toxicity:

Identification		Acute toxicity	Species	Genus
Xylene	LC50	13.5 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 1330-20-7	EC50	3.4 mg/L (48 h)	Ceriodaphnia dubia	Crustacean
EC: 215-535-7	EC50	10 mg/L (72 h)	Skeletonema costatum	Algae
Rosin	LC50	150 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 8050-09-7	EC50	238 mg/L (48 h)	Daphnia magna	Crustacean
EC: 232-475-7	EC50	185 mg/L (72 h)	Selenastrum capricornutum	Algae
Copper oxide	LC50	25.4 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 1317-38-0	EC50	0.011 mg/L (48 h)	Daphnia magna	Crustacean
EC: 215-269-1	EC50	Non-applicable		
Copper thiocyanate	LC50	0.1 - 1 mg/L (96 h)		Fish
CAS: 1111-67-7	EC50	0.1 - 1 mg/L		Crustacean
EC: 214-183-1	EC50	0.1 - 1 mg/L		Algae
zinc oxide	LC50	0.82 mg/L (96 h)	Oncorhynchus kisutch	Fish
CAS: 1314-13-2	EC50	3.4 mg/L (48 h)	Daphnia magna	Crustacean
EC: 215-222-5	EC50	Non-applicable		
N-butyl acetate	LC50	62 mg/L (96 h)	Leuciscus idus	Fish
CAS: 123-86-4	EC50	73 mg/L (24 h)	Daphnia magna	Crustacean
EC: 204-658-1	EC50	675 mg/L (72 h)	Scenedesmus subspicatus	Algae

12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
Xylene	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 1330-20-7	COD	Non-applicable	Period	28 days
EC: 215-535-7	BOD5/COD	Non-applicable	% Biodegradable	88 %



Safety data sheet According to 1907/2006/EC (REACH), 2015/830/EU

MORAVIA - OPTIMA ANTIFOULING RED AF28-6620

Identification Degradability Biodegradability BOD5 Non-applicable Concentration Non-applicable Rosin COD CAS: 8050-09-7 Non-applicable Period 28 days BOD5/COD % Biodegradable 32 % EC: 232-475-7 Non-applicable BOD5 N-butyl acetate Non-applicable Concentration Non-applicable CAS: 123-86-4 COD Non-applicable Period 5 days EC: 204-658-1 BOD5/COD 0.79 % Biodegradable 84 % 12.3 Bioaccumulative potential: Identification Bioaccumulation potential BCF Xvlene Pow Log CAS: 1330-20-7 2.77 EC: 215-535-7 Potential Low BCF N-butvl acetate 4 Pow Log 1.78 CAS: 123-86-4 EC: 204-658-1 Potential Low 12.4 Mobility in soil: Identification Absorption/desorption Volatility 202 Henrv 524,86 Pa·m³/mol Xvlene Koc CAS: 1330-20-7 Conclusion Moderate Dry soil Yes EC: 215-535-7 Surface tension Non-applicable Moist soil Yes N-butyl acetate Кос Non-applicable Henry Non-applicable

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

SECTION 12: ECOLOGICAL INFORMATION (continued)

12.6 Other adverse effects:

Not described

CAS: 123-86-4

EC: 204-658-1

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	Dangerous	

Non-applicable

2,478E-2 N/m (25 °C)

Dry soil

Moist soil

Non-applicable

Non-applicable

Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic, HP3 Flammable, HP6 Acute Toxicity, HP13 Sensitising, HP4 Irritant — skin irritation and eye damage

Conclusion

Surface tension

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2019 and RID 2019:



SECTION 14: TRANSPORT	INFORMATION (continued)	
14.1 14.2 14.3 14.4 14.5 14.6	UN number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user Special regulations: Tunnel restriction code: Physico-Chemical properties: Limited quantities: Transport in bulk according to Annex II of Marpol and	UN1263 PAINT 3 3 III Yes 163, 367, 650 D/E see section 9 5 L Non-applicable
Transport of dangero	the IBC Code:	
With regard to IMDG 39		
14.1 14.2 14.3 14.4 14.5 14.6 14.7	UN number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to Annex II of Marpol and the IBC Code:	UN1263 PAINT 3 3 III Yes 223, 955, 163, 367 F-E, S-E see section 9 5 L Non-applicable Non-applicable
Transport of dangero	• •	
14.2 14.3 14.4 14.5 14.6	AO 2020: UN number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user Physico-Chemical properties: Transport in bulk according to Annex II of Marpol and the IBC Code:	UN1263 PAINT 3 3 III Yes see section 9 Non-applicable

SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Copper oxide (Product-type 8) ; Copper thiocyanate (Product-type 21) ; Zineb (ISO) (Product-type 21)

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Contains Zineb (ISO)



SECTION 15: REGULATORY INFORMATION (continued)

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c		5000	50000
E1		100	200

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

- metallic glitter intended mainly for decoration,

- artificial snow and frost,
- "whoopee" cushions,

silly string aerosols,

- imitation excrement,
- horns for parties,

- decorative flakes and foams,

artificial cobwebs,

— stink bombs.

Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:

'For professional users only'.

Shall not be used in:

—ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

-tricks and jokes,

-games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.: Non-applicable

Texts of the legislative phrases mentioned in section 2:

H317: May cause an allergic skin reaction

H400: Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects

H315: Causes skin irritation

H312+H332: Harmful in contact with skin or if inhaled

H226: Flammable liquid and vapour

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:



SECTION 16: OTHER INFORMATION (continued)	
Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled Acute Tox. 4: H332 - Harmful if inhaled Aquatic Acute 1: H400 - Very toxic to aquatic life Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects Aquatic Chronic 4: H413 - May cause long lasting harmful effects to aquatic life Flam. Liq. 3: H226 - Flammable liquid and vapour Skin Irrit. 2: H315 - Causes skin irritation Skin Sens. 1: H317 - May cause an allergic skin reaction STOT SE 3: H335 - May cause respiratory irritation STOT SE 3: H336 - May cause drowsiness or dizziness	
Classification procedure:	
Skin Sens. 1: Calculation method Aquatic Acute 1: Calculation method Aquatic Chronic 1: Calculation method Skin Irrit. 2: Calculation method Acute Tox. 4: Calculation method Flam. Liq. 3: Calculation method (2.6.4.3)	
Advice related to training:	
Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.	
Principal bibliographical sources:	
http://echa.europa.eu http://eur-lex.europa.eu	
Abbreviations and acronyms:	
ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5-day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50 LOg-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon	

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified. - END OF SAFETY DATA SHEET -