

171455 - AC RAL4012 PearlBlackberryTopcoat 1455 M

SECTION 1: IDENTIFICATION

1.1 GHS Product identifier: 171455 - AC RAL4012 PearlBlackberryTopcoat 1455 M

Other means of identification:

Not applicable (N/A)

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Paint. For industrial user only.

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

1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:

Valresa Coatings, S.A.

Pol. Ind. Reva S-13 Avda. dels Gremis s/n 46190 Riba-roja de Turia Valencia - Spain

Phone: +34 961669560 safety@valresa.com www.valresa.com

1.4 Emergency phone number: +1 772 284 5590 (Only available during office hours)

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture:

NFPA:

Health Hazards: 2 Flammability Hazards: 3 Instability Hazards: 0

Special Hazards: Not applicable (N/A)

29 CFR 1910.1200:

Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.

Eye Irrit. 2A: Eye irritation, Category 2A, H319 Flam. Liq. 3: Flammable liquids, Category 3, H226 Repr. 2: Reproductive toxicity, Category 2, H361 Skin Irrit. 2: Skin irritation, Category 2, H315 Skin Sens. 1: Sensitisation, skin, Category 1, H317

STOT RE 2: Specific target organ toxicity, repeated exposure, Category 2, H373

STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336

2.2 Label elements:

NFPA:



29 CFR 1910.1200:

Warning







Hazard statements:

H226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

H361 - Suspected of damaging fertility or the unborn child.

H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:



171455 - AC RAL4012 PearlBlackberryTopcoat 1455 M

SECTION 2: HAZARD(S) IDENTIFICATION (continued)

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

P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.

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

P308+P313: IF exposed or concerned: Get medical advice/attention.

P370+P378: In case of fire: Use Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC) to extinguish.

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

Substances that contribute to the classification

N-butyl acetate; Toluene; 2-methoxy-1-methylethyl acetate; Reaction mass of ethylbenzene and xylene

Additional labeling:



This product can expose you to chemicals including Toluene, which is [are] known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

2.3 Hazards not otherwise classified (HNOC):

Not applicable (N/A)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 **Substances:**

Non-applicable

Mixtures:

Chemical description: Mixture composed of additives, pigments and resins in solvents

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

Identification		Chemical name	
CAS:	123-86-4	N-butyl acetate	25 - <50 %
CAS:	108-88-3	Toluene	10 - <25 %
CAS:	108-65-6	2-methoxy-1-methylethyl acetate	10 - <25 %
CAS:	Non-applicable	Reaction mass of ethylbenzene and xylene	5 - <10 %
CAS:	141-78-6	Ethyl acetate	5 - <10 %
CAS:	107-98-2	1-methoxy-2-propanol	5 - <10 %
CAS:	78-93-3	Butanone	0,25 - <2,5 %
CAS:	Non-applicable	Amide wax	0,1 - <0,25 %
CAS:	80-62-6	Methyl methacrylate	0,1 - <0,25 %

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



171455 - AC RAL4012 PearlBlackberryTopcoat 1455 M

SECTION 4: FIRST-AID MEASURES

4.1 **Description of necessary 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, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

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/effects, acute and delayed:

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

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Not applicable (N/A)

SECTION 5: FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media: 5.1

Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

Unsuitable extinguishing media:

Water jet

5.2 Specific hazards arising from the chemical:

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 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. 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:

For non-emergency personnel:

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. Remove 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.

For emergency responders:

Page 3/16



171455 - AC RAL4012 PearlBlackberryTopcoat 1455 M

SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and materials for containment and cleaning up:

For accidental releases in excess of reportables quantities (RQ) (Table 302.4), refer to 40 CFR 302 for detailed instructions concerning reporting requirements and notify the National Response Center (800) 424-8802.

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.- General precautions for safe use

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. 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

Because the product is a flammable liquid, storage should meet the requirement of 29 CFR 1910.106, Flammable and Combustible Liquids Code. 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 and with the minimum requirements for protecting the security and health of workers. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in fixed places that comply with the necessary security conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to containers of small amounts. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

Minimum Temp.: 41 °F Maximum Temp.: 95 °F

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):

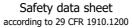
Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be assessed in the workplace:

Date of compilation: 5/23/2024 Revised: 6/7/2024 Version: 2 (Replaced 1) Page 4/16





Valresa 171455 - AC RAL4012 PearlBlackberryTopcoat 1455 M

UC OCHA Table 7.1 Limite for Air Conteminante (20 CER 1010 100	٠٠٠٠٠		
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.100 Identification		pational exposu	re limits
Carbon black	8-hour TWA PEL	pational exposu	3.5 mg/m ³
CAS: 1333-86-4	Ceiling Values - TWA		3,
	PEL OF THE PER PER PER PER PER PER PER PER PER PE		F / 2
Aluminium powder (stabilised)	8-hour TWA PEL Ceiling Values - TWA		5 mg/m ³
CAS: 7429-90-5	PEL		
Toluene (1)	8-hour TWA PEL	200 ppm	300 mg/m ²
CAS: 108-88-3	Ceiling Values - TWA PEL		
Reaction mass of ethylbenzene and xylene	8-hour TWA PEL	100 ppm	435 mg/m ²
CAS: Non-applicable	Ceiling Values - TWA		
N-butyl acetate	PEL 8-hour TWA PEL	150 ppm	710 mg/m ³
	Ceiling Values - TWA	130 ррш	710 mg/m
CAS: 123-86-4	PEL		
Methyl methacrylate	8-hour TWA PEL	100 ppm	410 mg/m ³
CAS: 80-62-6	Ceiling Values - TWA PEL		
Toluene (1)	8-hour TWA PEL	200 ppm	300 mg/m ³
CAS: 108-88-3	Ceiling Values - TWA PEL		
Ethyl acetate	8-hour TWA PEL	400 ppm	1400 mg/n
CAS: 141-78-6	Ceiling Values - TWA		1 100 1119/11
	PEL		
ethanol	8-hour TWA PEL Ceiling Values - TWA	1000 ppm	1900 mg/n
CAS: 64-17-5	PEL PEL		
Reaction mass of ethylbenzene and xylene	8-hour TWA PEL	100 ppm	435 mg/m ²
CAS: Non-applicable	Ceiling Values - TWA PEL		
Cumene (1)	8-hour TWA PEL	50 ppm	245 mg/m ³
CAS: 98-82-8	Ceiling Values - TWA		3/
	PEL		F00 / 1
Butanone	8-hour TWA PEL Ceiling Values - TWA	200 ppm	590 mg/m ³
CAS: 78-93-3	PEL		
propan-2-ol	8-hour TWA PEL	400 ppm	980 mg/m ²
CAS: 67-63-0	Ceiling Values - TWA PEL		
Dioctyltin dilaurate	8-hour TWA PEL		0.1 mg/m ³
, CAS: 3648-18-8	Ceiling Values - TWA		
	PEL		
US. ACGIH Threshold Limit Values (2022): Identification	Occi	pational exposu	ro limito
2-methoxypropanol	TLV-TWA	20 ppm	re iiiiiis
CAS: 1589-47-5	TLV-STEL	40 ppm	
1-methoxy-2-propanol (1)	TLV-TWA	50 ppm	
CAS: 107-98-2	TLV-STEL	100 ppm	
Carbon black	TLV-TWA		3 mg/m³
CAS: 1333-86-4	TLV-STEL	FO	
2-methoxy-1-methylethyl acetate ⁽¹⁾ CAS: 108-65-6	TLV-TWA TLV-STEL	50 ppm 75 ppm	
Aluminium powder (stabilised)	TLV-TWA	, 5 ppm	1 mg/m³
CAS: 7429-90-5	TLV-STEL		3/
Toluene (1)	TLV-TWA	20 ppm	
CAS: 108-88-3	TLV-STEL		
Reaction mass of ethylbenzene and xylene	TLV-TWA	100 ppm	
CAS: Non-applicable	TLV-STEL	150 ppm	
N-butyl acetate CAS: 123-86-4	TLV-TWA TLV-STEL	20 ppm	
Methyl methacrylate	TLV-TWA	50 ppm	
CAS: 80-62-6	TLV-STEL	100 ppm	
Toluene (1)	TLV-TWA	20 ppm	



171455 - AC RAL4012 PearlBlackberryTopcoat 1455 M

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

US. ACGIH Threshold Limit Values (2022):

Identification		Occupational exposure limits	
CAS: 108-88-3	TLV-STEL		
Ethyl acetate	TLV-TWA	150 ppm	
CAS: 141-78-6	TLV-STEL		
ethanol	TLV-TWA		
CAS: 64-17-5	TLV-STEL	1000 ppm	
Reaction mass of ethylbenzene and xylene	TLV-TWA	100 ppm	
CAS: Non-applicable	TLV-STEL	150 ppm	
Cumene (1)	TLV-TWA	25 ppm	
CAS: 98-82-8	TLV-STEL	75 ppm	
Mesitylene	TLV-TWA	10 ppm	
CAS: 108-67-8	TLV-STEL		
1,2,4-trimethylbenzene	TLV-TWA	10 ppm	
CAS: 95-63-6	TLV-STEL		
1,2,3-trimethylbenzene	TLV-TWA	10 ppm	
CAS: 526-73-8	TLV-STEL		
2-methoxypropyl acetate	TLV-TWA	20 ppm	
CAS: 70657-70-4	TLV-STEL	40 ppm	
Butanone	TLV-TWA	50 ppm	
CAS: 78-93-3	TLV-STEL	100 ppm	
oropan-2-ol	TLV-TWA	200 ppm	
CAS: 67-63-0	TLV-STEL	400 ppm	
Dioctyltin dilaurate	TLV-TWA		0.1 mg/m ³
CAS: 3648-18-8	TLV-STEL		0.2 mg/m ³

CALIFORNIA- TABLE AC-1 PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS:

Identification		Occupational exposure limits		
1-methoxy-2-propanol (1)	PEL	100 ppm	360 mg/m ³	
CAS: 107-98-2	STEL	540 ppm		
Carbon black	PEL		3.5 mg/m ³	
CAS: 1333-86-4	STEL			
2-methoxy-1-methylethyl acetate (1)	PEL	100 ppm	541 mg/m ³	
CAS: 108-65-6	STEL	811 ppm		
Toluene (1)	PEL	10 ppm	37 mg/m ³	
CAS: 108-88-3	STEL	150 ppm	560 mg/m ³	
Reaction mass of ethylbenzene and xylene	PEL	100 ppm	435 mg/m ³	
CAS: Non-applicable	STEL	150 ppm	655 mg/m ³	
N-butyl acetate	PEL	150 ppm	710 mg/m ³	
CAS: 123-86-4	STEL	200 ppm	950 mg/m ³	
Toluene (1)	PEL	10 ppm	37 mg/m ³	
CAS: 108-88-3	STEL	150 ppm	560 mg/m ³	
Ethyl acetate	PEL	400 ppm	1400 mg/m ³	
CAS: 141-78-6	STEL			
ethanol	PEL	1000 ppm	1900 mg/m ³	
CAS: 64-17-5	STEL			
Reaction mass of ethylbenzene and xylene	PEL	100 ppm	435 mg/m ³	
CAS: Non-applicable	STEL	150 ppm	655 mg/m ³	
Cumene (1)	PEL	50 ppm	245 mg/m ³	
CAS: 98-82-8	STEL			
Mesitylene	PEL	25 ppm	125 mg/m ³	
CAS: 108-67-8	STEL			
1,2,4-trimethylbenzene	PEL	25 ppm	125 mg/m ³	
CAS: 95-63-6	STEL			
1,2,3-trimethylbenzene	PEL	25 ppm	125 mg/m ³	
CAS: 526-73-8	STEL			
propan-2-ol	PEL	400 ppm	980 mg/m ³	
CAS: 67-63-0	STEL	500 ppm	1225 mg/m ³	
Dioctyltin dilaurate	PEL		0.1 mg/m ³	
CAS: 3648-18-8	STEL			

(1) Skin

Biological limit values:

Date of compilation: 5/23/2024 Revised: 6/7/2024 Version: 2 (Replaced 1) Page 6/16



171455 - AC RAL4012 PearlBlackberryTopcoat 1455 M

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Biological Exposure Indices (BEIs®) - ACGIH

Identification	BEIs®	Determinant	Sampling Time
Toluene CAS: 108-88-3	0.02 mg/L	Toluene in blood	Prior to last shift of workweek
Reaction mass of ethylbenzene and xylene CAS: Non-applicable	1500 mg/g (NULL)	Methylhippuric acids in urine	End of shift
Toluene CAS: 108-88-3	0.02 mg/L	Toluene in blood	Prior to last shift of workweek
Reaction mass of ethylbenzene and xylene CAS: Non-applicable	1500 mg/g (NULL)	Methylhippuric acids in urine	End of shift
Butanone CAS: 78-93-3	2 mg/L	Methyl ethyl ketone in urine	End of shift
propan-2-ol CAS: 67-63-0	40 mg/L	Acetone in urine	End of shift at end of workweek

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

Always provide effective general and, when necessary, local exhaust ventilation to maintain the ambient workplace atmosphere below the exposure limits.. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

Pictogram	PPE	Remarks
Mandatory respiratory tract protection	Filter mask for gases, vapours and particles	Replace when an increase in resistence to breathing is observed and/or a smell or taste of the contaminant is detected. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR).

C.- Specific protection for the hands

Pictogram	PPE	Remarks
Mandatory hand protection	Chemical protective gloves (Material: Linear low -density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm)	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. Use gloves in accordance with manufacturer's use limitations and OSHA standard 1910.138 (29CFR)

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Remarks
Mandatory face protection	Face shield	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR)

E.- Bodily protection

Pictogram	PPE	Remarks
Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties	For professional use only. Clean periodically according to the manufacturer's instructions.
Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties	

Date of compilation: 5/23/2024 Revised: 6/7/2024 Version: 2 (Replaced 1) Page 7/16



171455 - AC RAL4012 PearlBlackberryTopcoat 1455 M

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
•	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	*	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

40 CFR Part 59 (VOC):

V.O.C.(weight-percent): 78.84 % weight

V.O.C. at 77 °F: 734.28 kg/m³ (734.28 g/L)

California Air Resources Board (CARB) - VOC Regulatory:

V.O.C.(weight-percent): 78.84 % weight

V.O.C. at 77 °F: 734.28 kg/m³ (734.28 g/L)

South Coast Air Quality Management District (AQMD) - VOC Regulatory:

V.O.C.(weight-percent): 78.84 % weight

V.O.C. at 77 °F: 734.28 kg/m³ (734.28 g/L)

Ozone Transport Commission (OTC) Rules - VOC Regulatory:

V.O.C.(weight-percent): 78.84 % weight

V.O.C. at 77 °F: 734.28 kg/m³ (734.28 g/L)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 68 °F:

Appearance:

Color:

Uiquid

Viscous

Color:

Lilac

Odor:

Not available

Odour threshold: Not applicable (N/A) *

Volatility:

Boiling point at atmospheric pressure: 244 °F Vapour pressure at 77 °F: 3535 Pa

Vapour pressure at 122 °F: 11426.93 Pa (11.43 kPa) Evaporation rate at 77 °F: Not applicable (N/A) *

Product description:

Density at 77 °F: 929 kg/m³ Relative density at 77 °F: 0.929

Dynamic viscosity at 77 $^{\mathrm{o}}$ F: Not applicable (N/A) *

Kinematic viscosity at 77 $^{\circ}$ F: $>101 \text{ mm}^2/\text{s}$ Kinematic viscosity at 104 $^{\circ}$ F: $>20.5 \text{ mm}^2/\text{s}$

Concentration: Not applicable (N/A) * pH: Not applicable (N/A) * Vapour density at 77 °F: Not applicable (N/A) *

*Not applicable (N/A) due to the nature of the product, not providing information property of its hazards.

Date of compilation: 5/23/2024 Revised: 6/7/2024 Version: 2 (Replaced 1) Page 8/16



171455 - AC RAL4012 PearlBlackberryTopcoat 1455 M

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Partition coefficient n-octanol/water 77 °F:

Not applicable (N/A) *

Solubility in water at 77 °F:

Not applicable (N/A) *

Solubility properties:

Not applicable (N/A) *

Decomposition temperature:

Not applicable (N/A) *

Melting point/freezing point:

Not applicable (N/A) *

Flammability:

Flash Point: 75 °F

Flammability (solid, gas): Not applicable (N/A) *

Autoignition temperature: 518 °F

Lower flammability limit: Not available

Upper flammability limit: Not available

Particle characteristics:

Median equivalent diameter: Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:

Oxidising properties:

Not applicable (N/A) *

Corrosive to metals:

Not applicable (N/A) *

Heat of combustion:

Not applicable (N/A) *

Aerosols-total percentage (by mass) of flammable

Not applicable (N/A) *

components:
Other safety characteristics:

Surface tension at 77 °F:

Not applicable (N/A) *

Refraction index:

Not applicable (N/A) *

*Not applicable (N/A) due to the nature of the product, not providing information 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 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated 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:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO_2) , carbon monoxide and other organic compounds.

- CONTINUED ON NEXT PAGE -

SECTION 11: TOXICOLOGICAL INFORMATION



171455 - AC RAL4012 PearlBlackberryTopcoat 1455 M

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

11.1 Information on toxicological effects:

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

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health 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 classified as hazardous 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.
- B- Inhalation (acute effect):
 - Acute toxicity: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Produces skin inflammation.
 - Contact with the eyes: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.

IARC: Carbon black (2B); Hydrocarbons, C9-C11,n-alkanes, iso-alkanes, cyclics, <2% aromatics (3); Hydrocarbons, C9, aromatics (3); Toluene (3); Reaction mass of ethylbenzene and xylene (3); Methyl methacrylate (3); Toluene (3); ethanol (1); Reaction mass of ethylbenzene and xylene (3); Polyethylene wax (3); Cumene (2B); propan-2-ol (3); (3)

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Suspected of damaging fertility or the unborn child
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
 - Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) single exposure:

Exposure in high concentration can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.

- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
 - Skin: Based on available data, the classification criteria are not met, however, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.
- H- Aspiration hazard:

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

Other information:

Not applicable (N/A)

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
1-methoxy-2-propanol	LD50 oral	>5000 mg/kg	
CAS: 107-98-2	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	



171455 - AC RAL4012 PearlBlackberryTopcoat 1455 M

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Ad	Acute toxicity	
2-methoxy-1-methylethyl acetate	LD50 oral	8532 mg/kg	Rat
CAS: 108-65-6	LD50 dermal	>5000 mg/kg	Rat
	LC50 inhalation	30 mg/L (4 h)	Rat
Toluene	LD50 oral	5580 mg/kg	Rat
CAS: 108-88-3	LD50 dermal	12124 mg/kg	Rat
	LC50 inhalation	28.1 mg/L (4 h)	Rat
Reaction mass of ethylbenzene and xylene	LD50 oral	3523 mg/kg	Rat
CAS: Non-applicable	LD50 dermal	>5000 mg/kg (ATEi)	Rat
	LC50 inhalation	29 mg/L (4 h)	Rat
N-butyl acetate	LD50 oral	12789 mg/kg	Rat
CAS: 123-86-4	LD50 dermal	14112 mg/kg	Rabbit
	LC50 inhalation	23.4 mg/L (4 h)	Rat
Ethyl acetate	LD50 oral	4100 mg/kg	Rat
CAS: 141-78-6	LD50 dermal	20000 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	
Butanone	LD50 oral	4000 mg/kg	Rat
CAS: 78-93-3	LD50 dermal	6400 mg/kg	Rabbit
	LC50 inhalation	23.5 mg/L (4 h)	Rat
Amide wax	LD50 oral	>5000 mg/kg	
CAS: Non-applicable	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>5 mg/L	
Methyl methacrylate	LD50 oral	>5000 mg/kg	
CAS: 80-62-6	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	

SECTION 12: ECOLOGICAL INFORMATION

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

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

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Acute toxicity:

Identification		Concentration	Species	Genus
N-butyl acetate	LC50	Not applicable (N/A)		
CAS: 123-86-4	EC50	Not applicable (N/A)		
	EC50	675 mg/L (72 h)	Scenedesmus subspicatus	Algae
Toluene	LC50	13 mg/L (96 h)	Carassius auratus	Fish
CAS: 108-88-3	EC50	11.5 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Not applicable (N/A)		
2-methoxy-1-methylethyl acetate	LC50	161 mg/L (96 h)	Pimephales promelas	Fish
CAS: 108-65-6	EC50	481 mg/L (48 h)	Daphnia sp.	Crustacean
	EC50	Not applicable (N/A)		
Ethyl acetate	LC50	230 mg/L (96 h)	Pimephales promelas	Fish
CAS: 141-78-6	EC50	717 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	3300 mg/L (48 h)	Scenedesmus subspicatus	Algae
1-methoxy-2-propanol	LC50	20800 mg/L (96 h)	Pimephales promelas	Fish
CAS: 107-98-2	EC50	23300 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	1000 mg/L (168 h)	Selenastrum capricornutum	Algae
Butanone	LC50	3220 mg/L (96 h)	Pimephales promelas	Fish
CAS: 78-93-3	EC50	5091 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	4300 mg/L (168 h)	Scenedesmus quadricauda	Algae

- CONTINUED ON NEXT PAGE -



171455 - AC RAL4012 PearlBlackberryTopcoat 1455 M

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Concentration		Concentration Species	
Methyl methacrylate	LC50	191 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 80-62-6	EC50	69 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	170 mg/L (96 h)	Selenastrum capricornutum	Algae

Chronic toxicity:

Identification	Concentration		Species	Genus
N-butyl acetate	NOEC	Not applicable (N/A)		
CAS: 123-86-4	NOEC	23.2 mg/L	Daphnia magna	Crustacean
2-methoxy-1-methylethyl acetate	NOEC	47.5 mg/L	Oryzias latipes	Fish
CAS: 108-65-6	NOEC	100 mg/L	Daphnia magna	Crustacean
Reaction mass of ethylbenzene and xylene	NOEC	1.3 mg/L	Oncorhynchus mykiss	Fish
CAS: Non-applicable	NOEC	1.17 mg/L	Ceriodaphnia dubia	Crustacean
Ethyl acetate	NOEC	9.65 mg/L	Pimephales promelas	Fish
CAS: 141-78-6	NOEC	2.4 mg/L	Daphnia magna	Crustacean
Methyl methacrylate	NOEC	9.4 mg/L	Danio rerio	Fish
CAS: 80-62-6	NOEC	37 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
N-butyl acetate	BOD5	Not applicable (N/A)	Concentration	Not applicable (N/A)
CAS: 123-86-4	COD	Not applicable (N/A)	Period	5 days
	BOD5/COD	Not applicable (N/A)	% Biodegradable	84 %
Toluene	BOD5	2.5 g O2/g	Concentration	100 mg/L
CAS: 108-88-3	COD	Not applicable (N/A)	Period	14 days
	BOD5/COD	Not applicable (N/A)	% Biodegradable	100 %
2-methoxy-1-methylethyl acetate	BOD5	Not applicable (N/A)	Concentration	785 mg/L
CAS: 108-65-6	COD	Not applicable (N/A)	Period	8 days
	BOD5/COD	Not applicable (N/A)	% Biodegradable	100 %
Ethyl acetate	BOD5	1.36 g O2/g	Concentration	100 mg/L
CAS: 141-78-6	COD	1.69 g O2/g	Period	14 days
	BOD5/COD	0.8	% Biodegradable	83 %
1-methoxy-2-propanol	BOD5	Not applicable (N/A)	Concentration	100 mg/L
CAS: 107-98-2	COD	Not applicable (N/A)	Period	28 days
	BOD5/COD	Not applicable (N/A)	% Biodegradable	90 %
Butanone	BOD5	2.03 g O2/g	Concentration	Not applicable (N/A)
CAS: 78-93-3	COD	2.31 g O2/g	Period	20 days
	BOD5/COD	0.88	% Biodegradable	89 %
Methyl methacrylate	BOD5	Not applicable (N/A)	Concentration	100 mg/L
CAS: 80-62-6	COD	Not applicable (N/A)	Period	14 days
	BOD5/COD	Not applicable (N/A)	% Biodegradable	94.3 %

12.3 Bioaccumulative potential:

Substance-specific information:



171455 - AC RAL4012 PearlBlackberryTopcoat 1455 M

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bioa	Bioaccumulation potential		
N-butyl acetate	BCF	4		
CAS: 123-86-4	Pow Log	1.78		
	Potential	Low		
Toluene	BCF	90		
CAS: 108-88-3	Pow Log	2.73		
	Potential	Moderate		
2-methoxy-1-methylethyl acetate	BCF	1		
CAS: 108-65-6	Pow Log	0.43		
	Potential	Low		
Reaction mass of ethylbenzene and xylene	BCF	9		
CAS: Non-applicable	Pow Log	2.77		
	Potential	Low		
Ethyl acetate	BCF	30		
CAS: 141-78-6	Pow Log	0.73		
	Potential	Moderate		
1-methoxy-2-propanol	BCF	3		
CAS: 107-98-2	Pow Log	-0.44		
	Potential	Low		
Butanone	BCF	3		
CAS: 78-93-3	Pow Log	0.29		
	Potential	Low		
Methyl methacrylate	BCF	7		
CAS: 80-62-6	Pow Log	1.38		
	Potential	Low		

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
N-butyl acetate	Koc	Not applicable (N/A)	Henry	Not applicable (N/A)
CAS: 123-86-4	Conclusion	Not applicable (N/A)	Dry soil	Not applicable (N/A)
	Surface tension	2.478E-2 N/m (77 °F)	Moist soil	Not applicable (N/A)
Toluene	Koc	178	Henry	672.8 Pa·m³/mol
CAS: 108-88-3	Conclusion	Moderate	Dry soil	Yes
	Surface tension	2.793E-2 N/m (77 °F)	Moist soil	Yes
Ethyl acetate	Koc	59	Henry	13.58 Pa·m³/mol
CAS: 141-78-6	Conclusion	Very High	Dry soil	Yes
	Surface tension	2.324E-2 N/m (77 °F)	Moist soil	Yes
Butanone	Koc	30	Henry	5.77 Pa·m³/mol
CAS: 78-93-3	Conclusion	Very High	Dry soil	Yes
	Surface tension	2.396E-2 N/m (77 °F)	Moist soil	Yes
Methyl methacrylate	Koc	Not applicable (N/A)	Henry	Not applicable (N/A)
CAS: 80-62-6	Conclusion	Not applicable (N/A)	Dry soil	Not applicable (N/A)
	Surface tension	2.551E-2 N/m (77 °F)	Moist soil	Not applicable (N/A)

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Version: 2 (Replaced 1) Page 13/16



171455 - AC RAL4012 PearlBlackberryTopcoat 1455 M

SECTION 13: DISPOSAL CONSIDERATIONS (continued)

The next characteristic per RCRA could apply to the unused product if it becomes a waste material: Ignitability. The next EPA hazardous waste number could apply: D001.

IT IS THE RESPONSIBILITY OF THE WASTE GENERATOR TO EVALUATE WHETHER HIS WASTES ARE HAZARDOUS BY CHARACTERISTICS OR LISTING.

Waste management (disposal and evaluation):

Follow RCRA framework and EPA regulation for to ensure that hazardous waste is managed safely and properly. Waste should not be disposed of to drains. Remind, It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristics or listing. See section 6 for further information about Accidental release measures.

Regulations related to waste management:

Legislation related to waste management:

40 CFR Solid Wastes - Part 239 through 282.

State regulatory requirements for generators may be more stringent than those in the federal program. Be sure to check the state's policies.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to 49 CFR on the Transport of Dangerous Goods:



14.1 UN number: UN1263
14.2 UN proper shipping name: PAINT
14.3 Transport hazard class(es): 3
labels: 3

14.4 Packing group, if applicable: III **14.5 Marine pollutant:** No

14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

Limited quantities: 5 L

14.7 Transport in bulk (according Not applicable (N/A) to Annex II of MARPOL
73/78 and the IBC Code):

Transport of dangerous goods by sea:

With regard to IMDG 41-22:



14.1UN number:UN126314.2UN proper shipping name:PAINT14.3Transport hazard class(es):3Labels:3

14.4 Packing group, if applicable: III **14.5 Marine pollutant:** No

14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Special regulations: 223, 955, 163, 367

EmS Codes: F-E, S-E
Physico-Chemical properties: see section 9

Limited quantities: 5 L

Segregation group: Not applicable (N/A) **14.7 Transport in bulk (according** Not applicable (N/A)

to Annex II of MARPOL 73/78 and the IBC Code):

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:



171455 - AC RAL4012 PearlBlackberryTopcoat 1455 M

SECTION 14: TRANSPORT INFORMATION (continued)



14.1 UN number: UN1263
14.2 UN proper shipping name: PAINT
14.3 Transport hazard class(es): 3

Labels: 3 **14.4 Packing group, if applicable:** III

14.5 Marine pollutant:

14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

14.7 Transport in bulk (according Not applicable (N/A)

to Annex II of MARPOL 73/78 and the IBC Code):

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

- CALIFORNIA LABOR CODE The Hazardous Substances List: *N-butyl acetate (123-86-4)*; *Toluene (108-88-3)*; *Reaction mass of ethylbenzene and xylene (Non-applicable)*; *Ethyl acetate (141-78-6)*; *1-methoxy-2-propanol (107-98-2)*; *Butanone (78-93-3)*; *Methyl methacrylate (80-62-6)*
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) Birth defects or other reproductive harm: *Toluene (108-88-3)*
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) Cancer: Not applicable (N/A)
- CANADA-Domestic Substances List (DSL): *N-butyl acetate (123-86-4)*; *Toluene (108-88-3)*; *2-methoxy-1-methylethyl acetate (108-65-6)*; *Ethyl acetate (141-78-6)*; *1-methoxy-2-propanol (107-98-2)*; *Butanone (78-93-3)*; *Methyl methacrylate (80-62-6)*
- CANADA-Non-Domestic Substances List (NDSL): Not applicable (N/A)
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Reportable Quantities: *N-butyl acetate* (123-86-4) 5000 lb; Toluene (108-88-3) U220; Ethyl acetate (141-78-6) U112; Butanone (78-93-3) U159; Methyl methacrylate (80-62-6) U162
- Hazardous Air Pollutants (Clean Air Act): Toluene (108-88-3); Methyl methacrylate (80-62-6)
- Massachusetts RTK Substance List: *N-butyl acetate* (123-86-4); *Toluene* (108-88-3); *Reaction mass of ethylbenzene and xylene* (Non-applicable); Ethyl acetate (141-78-6); 1-methoxy-2-propanol (107-98-2); Butanone (78-93-3); Methyl methacrylate (80-62-6)
- Minnesota Hazardous substances ERTK: *N-butyl acetate* (123-86-4); *Toluene* (108-88-3); *Reaction mass of ethylbenzene and xylene* (Non-applicable); Ethyl acetate (141-78-6); 1-methoxy-2-propanol (107-98-2); Butanone (78-93-3); Methyl methacrylate (80-62-6)
- New Jersey Worker and Community Right-to-Know Act: N-butyl acetate (123-86-4); Toluene (108-88-3); Reaction mass of ethylbenzene and xylene (Non-applicable); Ethyl acetate (141-78-6); 1-methoxy-2-propanol (107-98-2); Butanone (78-93-3); Methyl methacrylate (80-62-6)
- New York RTK Substance list: N-butyl acetate (123-86-4); Toluene (108-88-3); Reaction mass of ethylbenzene and xylene (Non-applicable); Ethyl acetate (141-78-6); 1-methoxy-2-propanol (107-98-2); Butanone (78-93-3); Methyl methacrylate (80-62-6)
- NTP (National Toxicology Program): Not applicable (N/A)
- OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Not applicable (N/A)
- Pennsylvania Worker and Community Right-to-Know Law: *N-butyl acetate (123-86-4)*; *Toluene (108-88-3)*; *Ethyl acetate (141-78-6)*; *1-methoxy-2-propanol (107-98-2)*; *Butanone (78-93-3)*; *Methyl methacrylate (80-62-6)*
- Protective Action Criteria (PAC) with AEGLs, ERPGs, & TEELs: *N-butyl acetate (123-86-4)*; *Toluene (108-88-3)*; 2-methoxy-1-methylethyl acetate (108-65-6); Ethyl acetate (141-78-6); 1-methoxy-2-propanol (107-98-2); Butanone (78-93-3); Methyl methacrylate (80-62-6)
- Rhode Island Hazardous substances RTK: *N-butyl acetate (123-86-4)*; *Toluene (108-88-3)*; *Ethyl acetate (141-78-6)*; *Butanone (78-93-3)*; *Methyl methacrylate (80-62-6)*
- The Toxic Substances Control Act (TSCA): *N-butyl acetate (123-86-4)*; *Toluene (108-88-3)*; *2-methoxy-1-methylethyl acetate (108-65-6)*; *Ethyl acetate (141-78-6)*; *1-methoxy-2-propanol (107-98-2)*; *Butanone (78-93-3)*; *Methyl methacrylate (80-62-6)* Toxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): *Toluene (108-88-3)*; *Methyl methacrylate (80-62-6)*

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information provided in this safety data sheet as a foundation for conducting workplace-specific risk assessments. These assessments will help establish the appropriate risk prevention measures for handling, using, storing, and disposing of this product.

Other legislation:

Take into consideration other applicable federal, state, and local laws and local regulations.



171455 - AC RAL4012 PearlBlackberryTopcoat 1455 M

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets

Texts of the legislative phrases mentioned in section 2:

H336: May cause drowsiness or dizziness.

H315: Causes skin irritation.

H373: May cause damage to organs through prolonged or repeated exposure.

H361: Suspected of damaging fertility or the unborn child.

H317: May cause an allergic skin reaction. H226: Flammable liquid and vapour.

H319: Causes serious eye irritation.

Advice related to training:

According to 29 CFR 1910. 1200, training on chemical hazards is necessary for employees using this product. This training will facilitate their understanding and interpretation of the safety data sheet, as well as the product label.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:

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

CL50: Lethal Concentration 50 EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon IARC: International Agency for Research on Cancer

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END OF SAFETY DATA SHEET

Date of compilation: 5/23/2024 Revised: 6/7/2024 Version: 2 (Replaced 1) Page 16/16