

Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Article 31, Annex II, as amended by Commission Regulation (EU) 2020/878

RESYBRID CP

Date of first edition: 6/12/2023

Safety Data Sheet dated 6/12/2023

version 3

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

1.1. Product identifier

Mixture identification:

Trade name: RESYBRID CP

Trade code: FBIFC466

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

Recommended use: Adhesives/sealants for hardwood floors

Uses advised against: All uses other than recommended ones

1.3. Details of the supplier of the safety data sheet

Company: KERAKOLL France

25, avenue de l'Industrie - 69960 Corbas - France

Tel. +33 472 890 684

safety@kerakoll.com

1.4. Emergency telephone number

European emergency phone number 112

Kerakoll Italy (+39) 0536 816511

Ireland

Poison information centre: (+353) 809 2166 (Daily 8am-10pm)

In case of emergency call 999 or 112

Malta

In case of emergency call: 112 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

0 The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Special Provisions:

EUH208 Contains Trimethoxyvinilsilane. May produce an allergic reaction.

EUH208 Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.

EUH208 Contains Dibutyltin dilaurate. May produce an allergic reaction.

EUH208 Contains 1-Methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate bis(1,2,2,6,6-pentamethylpiperidin-4-yl) decanedioate. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$.

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: RESYBRID CP

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
1-2,4 %	Trimethoxyvinilsilane	CAS:2768-02-7 EC:220-449-8 Index:014-049-00-0	Skin Sens. 1B, H317; Flam. Liq. 2, H225; Acute Tox. 4, H332	01-2119513215-52
< 0,5 %	N-(3-(trimethoxysilyl)propyl) ethylenediamine	CAS:1760-24-3 EC:217-164-6	Eye Dam. 1, H318; Skin Sens. 1, H317; Acute Tox. 4, H332	01-2119970215-39
< 0,2 %	Dibutyltin dilaurate	CAS:77-58-7 EC:201-039-8 Index:050-030-00-3	Eye Irrit. 2, H319; Skin Sens. 1B, H317; Muta. 2, H341; Repr. 1B, H360FD; STOT SE 1, H370; STOT RE 1, H372; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	01-2119496068-27
< 0,1 %	1-Methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate bis(1,2,2,6,6-pentamethylpiperidin-4-yl) decanedioate	CAS:1065336-91-5 EC:915-687-0	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Repr. 2, H361; Skin Sens. 1A, H317, M-Chronic:1, M-Acute:1	01-2119491304-40-XXXX

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

N.A.

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

N.A.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Notes
Limestone	NATIONAL	BELGIUM		10.000				
	NATIONAL	HUNGARY		10.000				
	NATIONAL	SPAIN		10.000				Inhalable aerosol
	NATIONAL	SWITZERLAND		3.000				Respirable aerosol
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND		10.000				Inhalable aerosol
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND		4.000				Respirable aerosol
	NATIONAL	CROATIA		10.000				
	NATIONAL	FRANCE		10.000				
	NATIONAL	NETHERLANDS		10.000				
	NATIONAL	PORTUGAL		10.000				
di isononylphthalate	NATIONAL	DENMARK		3.000		6.000		
	NATIONAL	IRELAND		5.000				
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND		5.000				

		NORTHERN IRELAND						
Calcium carbonate	NATIONAL	AUSTRALIA	10.000					This value is for inhalable dust containing no asbestos and <1 % crystalline silica.
	NATIONAL	FRANCE	10.000					inhalable aerosol
	NATIONAL	HUNGARY	10.000					inhalable aerosol
	NATIONAL	IRELAND	10.000					Inhalable fraction
	NATIONAL	IRELAND	4.000					Respirable fraction
	NATIONAL	LATVIA	6.000					
	NATIONAL	POLAND	10.000					
	NATIONAL	SWITZERLAND	3.000					respirable aerosol
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	10.000					inhalable aerosol
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	4.000					respirable aerosol
	NATIONAL	BELGIUM	10.000					
	NATIONAL	CROATIA	10.000					
	NATIONAL	NETHERLANDS	10.000					
	NATIONAL	PORTUGAL	10.000					
	NATIONAL	SPAIN	10.000					
methanol	EU	NNN	260	200				Skin
	NATIONAL	AUSTRIA	260.000	200.000	1040.000	800.000		
	NATIONAL	BELGIUM	266.000	200.000	333.000	250.000		Additional indication "D" means that the absorption of the agent through the skin, mucous membranes or eyes is an important part of the total exposure. It can be the result of both direct contact and its presence in the air
	NATIONAL	DENMARK	260.000	200.000	328.000	250.000		
	NATIONAL	FINLAND	270.000	200.000	330.000	250.000		
	NATIONAL	FRANCE	260.000	200.000				Bold type: Restrictive statutory limit values Skin
	NATIONAL	GERMANY	270.000	200.000	1080.000	800.000		AGS
	NATIONAL	GERMANY	130.000	100.000	260.000	200.000		DFG
	NATIONAL	HUNGARY	260.000					
	NATIONAL	IRELAND	260.000	200.000				
	NATIONAL	ITALY	260.000	200.000				Cute
	NATIONAL	LATVIA	260.000	200.000				
	NATIONAL	POLAND	100.000		300.000			
	NATIONAL	ROMANIA	260.000	200.000				
	NATIONAL	SPAIN	266.000	200.000	333.000	250.000		
	NATIONAL	SWEDEN	250.000	200.000	350.000	250.000		
	NATIONAL	SWITZERLAND	260.000	200.000	1040.000	800.000		

Carbon black	NATIONAL	NETHERLANDS	133.000					
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	266.000	200.000	333.000	250.000		
	NATIONAL	ITALY	262.000	200.000	328.000	250.000	TWA	
	NATIONAL	ITALY	260.000	200.000	1040.000	800.000	TLV	
	NATIONAL	BULGARIA	260.000	200.000				
	NATIONAL	CZECHIA	250.000		1000.000			
	NATIONAL	CROATIA	260.000	200.000				
	NATIONAL	ESTONIA	250.000	200.000	350.000	250.000		
	NATIONAL	GREECE	260.000	200.000	325.000	250.000		
	NATIONAL	IRELAND	260.000	200.000				
	NATIONAL	LITHUANIA	260.000	200.000				
	NATIONAL	PORTUGAL		200.000		250.000		
	ACGIH	NNN		200.000		250.000	Skin, BEI - Headache, eye dam, dizziness, nausea	
	EU	NNN	260.000	200.000			Skin	
	NATIONAL	AUSTRALIA	3.000					
	NATIONAL	BELGIUM	3.000					
	NATIONAL	DENMARK	3.500		7.000			
	NATIONAL	FINLAND	3.500		7.000			
	NATIONAL	FRANCE	3.500					
	NATIONAL	IRELAND	3.500		7.000			
	NATIONAL	SPAIN	3.500					
	NATIONAL	SWEDEN	3.000					
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	3.500		7.000			
	NATIONAL	CROATIA	3.500		7.000			
	NATIONAL	GREECE	3.500		7.000			
	NATIONAL	PORTUGAL	3.000					
	ACGIH	NNN	3.000				(I), A3 - Bronchitis	
	NATIONAL	AUSTRIA	0.100		0.200		Long term and short term: inhalable fraction	
	NATIONAL	GERMANY	0.010	0.002	0.020	0.004	Long term and short term: inhalable fraction and vapour	
	NATIONAL	AUSTRALIA	0.100		0.200			
	NATIONAL	BELGIUM	0.100		0.200			
	NATIONAL	BULGARIA	0.100					
	NATIONAL	CZECHIA	0.100		0.200			
	NATIONAL	CROATIA	0.100		0.200			
	NATIONAL	DENMARK	0.100					
	NATIONAL	ESTONIA	0.100		0.200			
	NATIONAL	FINLAND	0.100		0.300			
	NATIONAL	GREECE	0.100		0.200			
	NATIONAL	IRELAND	0.100		0.200			
	NATIONAL	LITHUANIA	0.100		0.200			

NATIONAL	PORTUGAL	0.100		0.200	
NATIONAL	ROMANIA	0.050		0.150	
NATIONAL	SLOVAKIA	0.100		0.200	
NATIONAL	SLOVENIA	0.010	0.002	0.020	0.004
NATIONAL	SPAIN	0.100		0.200	
NATIONAL	SWEDEN	0.100		0.200	
NATIONAL	SWITZERLAND	0.020	0.004	0.020	0.004
NATIONAL	HUNGARY	0.100		0.400	

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC Limit	Exposure Route	Exposure Frequency
Trimethoxyvinilsilane	2768-02-7	400.000 µg/l	Freshwater	
		2.400 mg/l	Intermittent releases (freshwater)	
		40.000 µg/l	Marine water	
		6.600 mg/l	Microorganisms in sewage treatments	
		1.500 mg/kg	Freshwater sediments	
		150.000 µg/kg	Marine water sediments	
		60.000 µg/kg	Soil	
N-(3-(trimethoxysilyl)propyl)ethylenediamine	1760-24-3	62.000 µg/l	Freshwater	
		620.000 µg/l	Intermittent releases (freshwater)	
		6.200 µg/l	Marine water	
		25.000 mg/l	Microorganisms in sewage treatments	
		220.000 µg/kg	Freshwater sediments	
		22.000 µg/kg	Marine water sediments	
		8.500 µg/kg	Soil	
Dibutyltin dilaurate	77-58-7	0.463 mg/l	Freshwater	
		4.360 mg/l	Intermittent releases (freshwater)	
		0.046 mg/l	Marine water	
		0.050 mg/kg	Freshwater sediments	
		0.005 mg/kg	Marine water sediments	
		100.000 mg/l	Microorganisms in sewage treatments	
1-Methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate bis(1,2,2,6,6-pentamethylpiperidin-4-yl) decanedioate	1065336-91-5	2.200 µg/l	Freshwater	
		9.000 µg/l	Intermittent releases (freshwater)	
		220.000 ng/L	Marine water	
		1.000 mg/l	Microorganisms in sewage treatments	
		1.050 mg/kg	Freshwater sediments	
		110.000 µg/kg	Marine water sediments	
		210.000 µg/kg	Soil	

Derived No Effect Level (DNEL) values

Component	CAS-No.	Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency
Trimethoxyvinilsilane	2768-02-7		27.600 mg/m ³	6.700 mg/m ³	Human Inhalation	Long Term, systemic effects
			260.000 mg/m ³	50.000 mg/m ³	Human Inhalation	Short Term, systemic effects
			3.900 mg/kg	7.800 mg/kg	Human Dermal	Short Term, systemic effects
				300.000 µg/kg	Human Oral	Long Term, systemic effects
N-(3-(trimethoxysilyl)propyl) ethylenediamine	1760-24-3		260.000 mg/m ³	50.000 mg/m ³	Human Inhalation	Long Term, systemic effects
			260.000 mg/m ³	50.000 mg/m ³	Human Inhalation	Short Term, systemic effects
			600.000 µg/m ³	100.000 µg/m ³	Human Inhalation	Long Term, local effects
			5.360 mg/m ³	4.000 mg/m ³	Human Inhalation	Short Term, local effects
				8.000 mg/kg	Human Oral	Long Term, systemic effects
Dibutyltin dilaurate	77-58-7		0.020 mg/m ³	0.046 mg/m ³	Human Inhalation	Long Term, systemic effects
			0.059 mg/m ³	0.040 mg/m ³	Human Inhalation	Short Term, systemic effects
				0.003 mg/kg	Human Oral	Long Term, systemic effects
				0.020 mg/kg	Human Oral	Short Term (acute)
			0.430 mg/kg	0.160 mg/kg	Human Dermal	Long Term, systemic effects
1-Methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate bis(1,2,2,6,6-pentamethylpiperidin-4-yl) decanedioate	1065336-91-5		2.050 mg/kg	0.500 mg/kg	Human Dermal	Short Term (acute)
			680.000 µg/m ³	170.000 µg/m ³	Human Inhalation	Long Term, systemic effects
			500.000 µg/kg	250.000 µg/kg	Human Dermal	Long Term, systemic effects
				50.000 µg/kg	Human Oral	Long Term, systemic effects

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

N.A.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Liquid
Color: Brown
Odour: Characteristic
Odour threshold: N.A.
pH: N.A.
Kinematic viscosity: N.A.
Melting point / freezing point: N.A.
Initial boiling point and boiling range: N.A.
Flash point: > 100°C / 212°F
Upper/lower flammability or explosive limits: N.A.
Vapour density: N.A.
Vapour pressure: N.A.
Relative density: 1.68 g/cm³
Solubility in water: N.A.
Solubility in oil: N.A.
Partition coefficient (n-octanol/water): N.A.
Auto-ignition temperature: N.A.
Decomposition temperature: N.A.
Flammability: N.A.
Volatile Organic compounds - VOCs = 0.17 % ; 1.74 g/l

Particle characteristics:

Particle size: N.A.

9.2. Other information

Miscibility: N.A.
Conductivity: N.A.
Evaporation rate: N.A. No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological Information of the Preparation

a) acute toxicity	Not classified Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not classified Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified Based on available data, the classification criteria are not met

h) STOT-single exposure	Not classified
	Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified
	Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

Trimethoxyvinilsilane	a) acute toxicity	LD50 Oral Rat = 7.34000 ml/Kg LC50 Inhalation Vapour Rat = 2773.00000 Ppm 4h LD50 Skin Rabbit = 3.36000 mg/kg 24h	
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative 24h	
	c) serious eye damage/irritation	Eye Irritant Rabbit No 24h	
	d) respiratory or skin sensitisation	Skin Sensitization Guineapig Positive	
	f) carcinogenicity	Genotoxicity Rat Negative	Inhalation route
	g) reproductive toxicity	No Observed Adverse Effect Level Oral Rat = 250.00000 mg/kg	
N-(3-(trimethoxysilyl)propyl)ethylenediamine	a) acute toxicity	LD50 Oral Rat = 2295.00 mg/kg LC50 Inhalation of aerosol Rat > 1.49 mg/l 4h LD50 Skin Rabbit > 2000.00 mg/kg 24h	<2.44 mg/l
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative	
	c) serious eye damage/irritation	Eye Irritant Rabbit Yes	
	d) respiratory or skin sensitisation	Skin Sensitization Guineapig Positive	
	f) carcinogenicity	Genotoxicity Negative	Mouse intraperitoneal route
	g) reproductive toxicity	No Observed Adverse Effect Level Oral Rat = 500.00 mg/kg	
Dibutyltin dilaurate	a) acute toxicity	LD50 Oral Rat = 2071.00 mg/kg	
1-Methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate bis(1,2,2,6,6-pentamethylpiperidin-4-yl) decanedioate	a) acute toxicity	LD50 Oral Rat = 3230.00 mg/kg LD50 Skin Rat > 3170.00 mg/kg	
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative 24h	
	c) serious eye damage/irritation	Eye Irritant Rabbit No	
	d) respiratory or skin sensitisation	Skin Sensitization Guineapig Positive	
	f) carcinogenicity	Genotoxicity Negative	Mouse oral route
	g) reproductive toxicity	No Observed Adverse Effect Level Oral Rat = 30.00 mg/kg	

11.2 Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
Trimethoxyvinilsilane	CAS: 2768-02-7 - EINECS: 220-449-8 - INDEX: 014-049-00-0	a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 137.00000 mg/L 96h a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 121.00000 mg/L 48h b) Aquatic chronic toxicity : NOEC Daphnia Daphnia magna = 20.00000 mg/L - 21days a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata > 89.00000 mg/L 72h a) Aquatic acute toxicity : EC10 microorganisms > 100.00000 mg/L 3h OECD 209
N-(3-(trimethoxysilyl)propyl)ethylenediamine	CAS: 1760-24-3 - EINECS: 217-164-6	a) Aquatic acute toxicity : LC50 Fish Danio rerio = 597.00 mg/L 96h a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 81.00 mg/L 48h b) Aquatic chronic toxicity : NOEC Daphnia Daphnia magna >= 1.00 ppm - 21days a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = 8.80 mg/L 72h c) Bacteria toxicity : EC50 Pseudomonas putida = 67.00 mg/L d) Terrestrial toxicity : LC50 Worm Eisenia foetida > 1000.00 mg/kg - 14days
Dibutyltin dilaurate	CAS: 77-58-7 - EINECS: 201-039-8 - INDEX: 050-030-00-3	a) Aquatic acute toxicity : EC50 Fish Brachydanio rerio = 3.10 mg/L 96h a) Aquatic acute toxicity : EC50 Daphnia Daphnia Magna = 0.46 mg/L 48h a) Aquatic acute toxicity : EC50 Algae Scenedesmus subspicatus = 1.00 mg/L 96h
1-Methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate bis(1,2,2,6,6-pentamethylpiperidin-4-yl) decanedioate	CAS: 1065336-91-5 - EINECS: 915-687-0	a) Aquatic acute toxicity : LC50 Fish Danio rerio = 0.90 mg/L 96h OECD Guideline 203 b) Aquatic chronic toxicity : NOEC Daphnia Daphnia magna = 1.00 mg/L OECD guideline 211 a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 1.68 mg/L 72h OECD Guideline 201 a) Aquatic acute toxicity : EC20 Sludge activated sludge >= 100.00 mg/L 3h OECD guideline 209

12.2. Persistence and degradability

Component	Persistence/Degradability:	Test	Value	Notes
Trimethoxyvinilsilane	Readily biodegradable			
N-(3-(trimethoxysilyl)propyl)ethylenediamine	Non-readily biodegradable	Dissolved organic carbon	39.000	28days
1-Methyl 1,2,2,6,6-pentamethylpiperidin-4-yl	Non-readily biodegradable		38.000	28days

decanedioate bis(1,2,2,6,6-pentamethylpiperidin-4-yl)
decanedioate

12.3. Bioaccumulative potential

Component	Bioaccumulation
1-Methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate bis(1,2,2,6,6-pentamethylpiperidin-4-yl) decanedioate	Not bioaccumulative

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT/vPvB Ingredients are present

12.6 Endocrine disrupting properties

No endocrine disruptor substances present in concentration $\geq 0.1\%$

12.7 Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

A waste code according to European waste catalogue (EWC) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

Properties of waste which render it hazardous (Annex III, Directive 2008/98/EC):

N.A.

SECTION 14: Transport information

14.1. UN number or ID number

N/A

14.2. UN proper shipping name

ADR-Shipping Name: N/A

IATA-Technical name: N/A

IMDG-Technical name: N/A

14.3. Transport hazard class(es)

ADR-Class: N/A

IATA-Class: N/A

IMDG-Class: N/A

14.4. Packing group

ADR-Packing Group: N/A

IATA-Packing group: N/A

IMDG-Packing group: N/A

14.5. Environmental hazards

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: N/A

14.6. Special precautions for user

Road and Rail (ADR-RID) :

ADR-Label: N/A

ADR - Hazard identification number: N/A

ADR-Special Provisions: N/A

ADR-Transport category (Tunnel restriction code): N/A

ADR Limited Quantities: N/A

ADR Excepted Quantities: N/A

Air (IATA) :

IATA-Passenger Aircraft: N/A

IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Subsidiary hazards: N/A

IATA-Erg: N/A

IATA-Special Provisioning: N/A

Sea (IMDG) :

IMDG-Stowage Code: N/A

IMDG-Stowage Note: N/A

IMDG-Subsidiary hazards: N/A

IMDG-Special Provisioning: N/A

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2020/878

Regulation (EC) nr 648/2004 (Detergents).

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: None

Restrictions related to the substances contained: 30, 40, 52, 69, 75

Provisions related to directive EU 2012/18 (Seveso III):

N.A.

Regulation (EU) 649/2012 (PIC regulation):

Substances listed in Annex V to the PIC regulation:

No Substance Listed

Substances listed in Annex I to the PIC regulation:

Dibutyltin dilaurate Part 1

German Water Hazard Class.

Class 3: extremely hazardous.

SVHC Substances:

No data available

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Code	Description
H225	Highly flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

H332	Harmful if inhaled.
H341	Suspected of causing genetic defects.
H360FD	May damage fertility. May damage the unborn child.
H361	Suspected of damaging fertility or the unborn child.
H370	Causes damage to organs (thymus).
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
3.5/2	Muta. 2	Germ cell mutagenicity, Category 2
3.7/1B	Repr. 1B	Reproductive toxicity, Category 1B
3.7/2	Repr. 2	Reproductive toxicity, Category 2
3.8/1	STOT SE 1	Specific target organ toxicity — single exposure, Category 1
3.9/1	STOT RE 1	Specific target organ toxicity — repeated exposure, Category 1
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
IC50: half maximal inhibitory concentration
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KAFH: Keep Away From Heat
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
N/A: Not Applicable
N/D: Not defined/ Not available
NA: Not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration.
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.

Exposure Scenario

1-Methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate
bis(1,2,2,6,6-pentamethylpiperidin-4-yl) decanedioate

Exposure Scenario, 20/04/2022

Substance identity	
	1-Methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate bis(1,2,2,6,6-pentamethylpiperidin-4-yl) decanedioate
CAS No.	1065336-91-5
EINECS No.	915-687-0

Table of contents

1. **ES 1** Widespread use by professional workers; Various products (PC9a, PC9b)

1. ES 1		Widespread use by professional workers; Various products (PC9a, PC9b)	
1.1 TITLE SECTION			
Exposure Scenario name	Professional application of coatings and inks - Use in rigid foams, coatings, adhesives and sealants		
Date - Version	20/04/2022 - 1.0		
Life Cycle Stage	Widespread use by professional workers		
Main user group	Professional uses		
Sector(s) of use	Professional uses (SU22)		
Product Categories	Coatings and paints, thinners, paint removers (PC9a) - Fillers, putties, plasters, modelling clay (PC9b)		
Environment Contributing Scenario			
CS1	ERC8c		
Worker Contributing Scenario			
CS2 Material transfers	PROC8a		
CS3 Rolling, Brushing	PROC10		
1.2 Conditions of use affecting exposure			
1.2. CS1: Environment Contributing Scenario (ERC8c)			
Environmental release categories	Widespread use leading to inclusion into/onto article (indoor) (ERC8c)		
<i>Product (article) characteristics</i>			
Physical form of product: Liquid			
Vapour pressure: Vapour pressure < 0.01 Pa at standard temperature and pressure 0.0001 Pa			
<i>Amount used, frequency and duration of use (or from service life)</i>			
Emission days: 365 days per year			
<i>Technical and organisational conditions and measures</i>			
Control measures to prevent releases			
		Air - minimum efficiency of: 15 % Water - minimum efficiency of: 1 %	
<i>Conditions and measures related to sewage treatment plant</i>			
STP type: Municipal Sewage Treatment Plant Water - minimum efficiency of: = 88.9 %			
STP effluent (m³/day): 2000			
<i>Other conditions affecting environmental exposure</i>			
Local marine water dilution factor: 100 Local freshwater dilution factor: 10 Receiving surface water flow: 18000 m³/day Indoor use			
1.2. CS2: Worker Contributing Scenario: Material transfers (PROC8a)			

Process Categories	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)	
<i>Product (article) characteristics</i>		
Physical form of product: Liquid		
Vapour pressure: Vapour pressure < 0.01 Pa at standard temperature and pressure 0.0001 Pa		
Concentration of substance in product: Covers percentage substance in the product up to 5 %.		
<i>Amount used, frequency and duration of use/exposure</i>		
Duration: Covers use up to 480 min		
Frequency: Covers use up to 5 days per week		
<i>Technical and organisational conditions and measures</i>		
Technical and organisational measures Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Ensure operatives are trained to minimise exposures.		
<i>Conditions and measures related to personal protection, hygiene and health evaluation</i>		
Personal protection		
Wear chemically resistant gloves (tested to EN374) in combination with "basic" employee training.		Dermal - minimum efficiency of: = 90 %
Wear suitable face shield. Wear suitable coveralls to prevent exposure to the skin.		
<i>Other conditions affecting worker exposure</i>		
Indoor use Professional use		
<i>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply.</i>		
Additional Good Practice Advice: Ensure no splashing occurs during transfer.		
1.2. CS3: Worker Contributing Scenario: Rolling, Brushing (PROC10)		
Process Categories	Roller application or brushing (PROC10)	
<i>Product (article) characteristics</i>		
Physical form of product: Liquid		
Vapour pressure: Vapour pressure < 0.01 Pa at standard temperature and pressure 0.0001 Pa		
Concentration of substance in product: Covers percentage substance in the product up to 5 %.		
<i>Amount used, frequency and duration of use/exposure</i>		
Duration: Covers use up to 480 min		
Frequency: Covers use up to 5 days per week		
<i>Technical and organisational conditions and measures</i>		
Technical and organisational measures		

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Ensure operatives are trained to minimise exposures.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear chemically resistant gloves (tested to EN374) in combination with "basic" employee training.	Dermal - minimum efficiency of: = 90 %
Wear suitable face shield. Wear suitable coveralls to prevent exposure to the skin.	

Other conditions affecting worker exposure

Indoor use
Professional use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply.

Additional Good Practice Advice:

Ensure no splashing occurs during transfer.

1.3 Exposure estimation and reference to its source

1.3. CS1: Environment Contributing Scenario (ERC8c)

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
soil	N/A	ECETOC TRA environment v2.0	0.0579

Additional information on exposure estimation:

Risk from environmental exposure is driven by soil.

1.3. CS2: Worker Contributing Scenario: Material transfers (PROC8a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	= 0.2743 mg/kg bw/day	ECETOC TRA worker v3	= 0.137143
inhalative, systemic, long-term	= 0.4233 mg/m ³	ECETOC TRA worker v3	= 0.119924

1.3. CS3: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	= 0.5486 mg/kg bw/day	ECETOC TRA worker v3	= 0.274286
inhalative, systemic, long-term	= 0.274286 mg/m ³	ECETOC TRA worker v3	= 0.097

1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Exposure Scenario

N-(3-(trimethoxysilyl)propyl)ethylenediamine

Exposure Scenario, 12/01/2022

Substance identity	
	N-(3-(trimethoxysilyl)propyl)ethylenediamine
CAS No.	1760-24-3
EINECS No.	217-164-6

Table of contents

1. **ES 1** Widespread use by professional workers; Coatings and paints, thinners, paint removers (PC9a)

1. ES 1		Widespread use by professional workers; Coatings and paints, thinners, paint removers (PC9a)	
1.1 TITLE SECTION			
Exposure Scenario name	Professional application of coatings and inks		
Date - Version	12/01/2022 - 1.0		
Life Cycle Stage	Widespread use by professional workers		
Main user group	Professional uses		
Sector(s) of use	Professional uses (SU22)		
Product Categories	Coatings and paints, thinners, paint removers (PC9a)		
Environment Contributing Scenario			
CS1	ERC8c - ERC8f		
Worker Contributing Scenario			
CS2 Rolling, Brushing - Roller, spreader, flow application - Manual	PROC10 - PROC11 - PROC19		
1.2 Conditions of use affecting exposure			
1.2. CS1: Environment Contributing Scenario (ERC8c, ERC8f)			
Environmental release categories	Widespread use leading to inclusion into/onto article (indoor) - Widespread use leading to inclusion into/onto article (outdoor) (ERC8c, ERC8f)		
<i>Product (article) characteristics</i>			
Physical form of product: Liquid			
Concentration of substance in product: Covers percentage substance in the product up to 5 %.			
<i>Amount used, frequency and duration of use (or from service life)</i>			
Amounts used: Daily amount per site <= 1.37 kg/day Annual site tonnage <= 0.5 tonnes/day			
Emission days: 365 days per year			
<i>Technical and organisational conditions and measures</i>			
Control measures to prevent releases Prevent discharge of undissolved substance to or recover from onsite wastewater.			
<i>Conditions and measures related to treatment of waste (including article waste)</i>			
Waste treatment Dispose of solid residue according to applicable regulations.			
1.2. CS2: Worker Contributing Scenario: Rolling, Brushing - Roller, spreader, flow application - Manual (PROC10, PROC11, PROC19)			
Process Categories	Roller application or brushing - Non industrial spraying - Manual activities involving hand contact (PROC10, PROC11, PROC19)		
<i>Product (article) characteristics</i>			
Physical form of product: Liquid			
Concentration of substance in product: Covers percentage substance in the product up to 5 %.			
<i>Amount used, frequency and duration of use/exposure</i>			

Amounts used:

Annual site tonnage ≤ 0.5 t(tonnes)/year
Daily amount per site ≤ 1.37 kg/day

Duration:

Covers daily exposures up to 8 hours

Frequency:

Covers use up to ≤ 5 days per week

Technical and organisational conditions and measures**Technical and organisational measures**

Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan.

Conditions and measures related to personal protection, hygiene and health evaluation**Personal protection**

Wear suitable gloves tested to EN374.

Wear suitable coveralls to prevent exposure to the skin.

1.3 Exposure estimation and reference to its source

1.3. CS1: Environment Contributing Scenario (ERC8c, ERC8f)

Release route	Release rate	Release estimation method
Air	0.17 kg/day	N/A
Water	0.011 kg/day	N/A

1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.



Exposure Scenario

Trimethoxyvinilsilane

Exposure Scenario, 08/06/2021

Substance identity	
	Trimethoxyvinilsilane
CAS No.	2768-02-7
INDEX No.	014-049-00-0
EINECS No.	220-449-8
Registration number	01-2119513215-52

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1. ES 1

1. ES 1

1.1 TITLE SECTION

Exposure Scenario name	Use in rigid foams, coatings, adhesives and sealants - Barrier (Sealant)
Date - Version	18/05/2021 - 1.0
Main user group	Professional uses
Sector(s) of use	Professional uses (SU22) - Building and construction work (SU19)
Product Categories	Adhesives, sealants (PC1)

Environment Contributing Scenario

CS1 Low environmental release	ERC8c - ERC8f
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Worker Contributing Scenario

CS2 Wiping - Hand application - finger paints, pastels, adhesives - Preparation of material for application	PROC0
CS3 Wiping - Hand application - finger paints, pastels, adhesives - Preparation of material for application	PROC1

1.2 Conditions of use affecting exposure

1.2. CS1: Environment Contributing Scenario: Low environmental release (ERC8c, ERC8f)

Environmental release categories	Widespread use leading to inclusion into/onto article (indoor) - Widespread use leading to inclusion into/onto article (outdoor) (ERC8c, ERC8f)
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Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Concentration after dilution for use maximum [%]: 0.7 %

Amount used, frequency and duration of use (or from service life)

Amounts used:

Daily amount per site = 0.28 kg/day

Release type: Continuous release

Emission days: 365 days per year

Technical and organisational conditions and measures

Control measures to prevent releases

	Water - minimum efficiency of: 1.5 %
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Conditions and measures related to sewage treatment plant

STP type:

Onsite Sewage Treatment Plant

Water - minimum efficiency of: = 0.013 %

Conditions and measures related to treatment of waste (including article waste)

Waste treatment

Dispose of waste product or used containers according to local regulations.

Other conditions affecting environmental exposure

Local marine water dilution factor: 100

Local freshwater dilution factor: 10

Receiving surface water flow: 20000 m³/day

Covers indoor and outdoor use	
1.2. CS2: Worker Contributing Scenario: Wiping - Hand application - finger paints, pastels, adhesives - Preparation of material for application (PROC0)	
Process Categories	Other (PROC0)
<i>Product (article) characteristics</i>	
Physical form of product: Liquid	
Concentration of substance in product: Covers concentrations up to 0.7 %	
<i>Amount used, frequency and duration of use/exposure</i>	
Duration: Exposure duration <= 6 h	
Frequency: Use frequency = 250 days per year	
<i>Technical and organisational conditions and measures</i>	
Technical and organisational measures Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). For further specification, refer to section 8 of the SDS.	
<i>Other conditions affecting worker exposure</i>	
Covers indoor and outdoor use Professional use Room size: Covers use in room size of = 20 m ³ Temperature: Covers use at ambient temperatures. 25°C	
1.2. CS3: Worker Contributing Scenario: Wiping - Hand application - finger paints, pastels, adhesives - Preparation of material for application (PROC1)	
Process Categories	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)
<i>Product (article) characteristics</i>	
Physical form of product: Liquid	
Concentration of substance in product: Covers concentrations up to 2 %	
<i>Amount used, frequency and duration of use/exposure</i>	
Duration: Exposure duration = 8 h	
Frequency: Use frequency = 1 days per year	
Duration: Covers use up to = 6 h	
Frequency: Use frequency = 1 days per year	
<i>Other conditions affecting worker exposure</i>	
Covers indoor and outdoor use Professional use Room size: Covers use in room size of = 20 m ³ Ventilation rate: = 0.6 ach (air changes per hour)	
1.3 Exposure estimation and reference to its source	
1.3. CS2: Worker Contributing Scenario: Wiping - Hand application - finger paints, pastels, adhesives - Preparation of material for application (PROC0)	

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, long-term	= 1.9 mg/m ³	N/A	= 0.069
dermal, long-term	= 4.53 mg/kg bw/day	ConsExpo	= 0.038
combined routes, long-term	N/A	N/A	0.107

1.3. CS3: Worker Contributing Scenario: Wiping - Hand application - finger paints, pastels, adhesives - Preparation of material for application (PROC1)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, long-term	= 4.57 mg/m ³	N/A	= 0.682
dermal, long-term	= 0.044 mg/kg bw/day	ConsExpo	< 0.01
combined routes, short-term	N/A	N/A	0.682

1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.