

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



TESSAROL DIRECT 3in1 RAL----

Version	Revision Date:	SDS Number:	Date of last issue: 21.01.2026
6.0	13.08.2026	MAT0GA00_104IE/ EN	Date of first issue: 20.07.2023

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

1.1 Product identifier

Trade name : TESSAROL DIRECT 3in1 RAL----

Product code : Please see section 16 for detailed data

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

Use of the Sub-
stance/Mixture : SU19: Building and construction work
PROC10, PROC11: Roller application or brushing, Non industrial spraying
PC9a: Coatings and paints, thinners, paint removers

Recommended restrictions on use : Professional and consumer use of coatings

1.3 Details of the supplier of the safety data sheet

Company : KANSAI HELIOS Slovenija d.o.o.
Količevo 65
1230 Domžale
Slovenia

Telephone Company : 386 (1) 722 4383

Telefax Company : 386 (1) 722 4310

Responsible/issuing person : 386 (1) 722 4383
productsafety@kansai-helios.si

1.4 Emergency telephone number

01 809 2166 National Poisons Information Centre 01 809 2166

01 809 2566 Healthcare Professionals 01 809 2566

01 809 2566 Healthcare Professionals 01 809 2566

Access code: 13586 +1 760 476 3962

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3

H226: Flammable liquid and vapour.

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Specific target organ toxicity - single exposure, Category 3, Central nervous system

H336: May cause drowsiness or dizziness.

Long-term (chronic) aquatic hazard, Category 3

H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word :

Warning

Hazard statements :

H226

Flammable liquid and vapour.

H336

May cause drowsiness or dizziness.

H412

Harmful to aquatic life with long lasting effects.

Precautionary statements :

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

Prevention:

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.

Response:

P370 + P378

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P405

Store locked up.

Disposal:

P501

Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

1-methoxy-2-propanol

2-methoxy-1-methylethyl acetate

Additional Labelling

EUH208

Contains mixture of sterically composed sebacates, 2,3-epoxypropyl neodecanoate. May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	- 919-857-5 01-2119463258-33	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304	>= 20 - < 30
hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics	- 918-481-9 01-2119457273-39	Asp. Tox. 1; H304 EUH066	>= 1 - < 10
1-methoxy-2-propanol	107-98-2 203-539-1 603-064-00-3 01-2119457435-35	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system)	>= 1 - < 10
2-methoxy-1-methylethyl acetate	108-65-6 203-603-9 607-195-00-7 01-2119475791-29	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system)	>= 1 - < 10
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	1065336-91-5 915-687-0 01-2119491304-40	Skin Sens. 1; H317 Repr. 2; H361f Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0.25 - < 1
strontium neodecanoate	106705-37-7	Acute Tox. 4; H302	>= 0.1 - < 0.3

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		Eye Dam. 1; H318 Repr. 1B; H360D	
2,3-epoxypropyl neodecanoate	26761-45-5 247-979-2 607-770-00-2 01-2119431597-33	Skin Sens. 1A; H317 Muta. 2; H341 Repr. 2; H361d Aquatic Chronic 2; H411 specific concentration limit Skin Sens. 1A; H317 >= 0.001 %	< 0.0002
Substances with a workplace exposure limit :			
Kaolin	1332-58-7 310-194-1		>= 1 - < 10
Talc	14807-96-6 238-877-9 01-2120140278-58		>= 1 - < 10

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

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Risks : May cause drowsiness or dizziness.
May cause drowsiness or dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

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6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform
respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

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Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : For further information, refer to the product technical data sheet.

Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
titanium dioxide	13463-67-7	OELV - 8 hrs (TWA) (inhalable dust)	10 mg/m3	IE OEL
		OELV - 8 hrs (TWA) (Respirable dust)	4 mg/m3	IE OEL
Kaolin	1332-58-7	TWA (Respirable dust)	0.1 mg/m3	2004/37/EC
Further information: Carcinogens or mutagens				
		OELV - 8 hrs (TWA) (Respirable dust)	2 mg/m3	IE OEL
barium sulfate	7727-43-7	OELV - 8 hrs (TWA) (Respirable dust)	5 mg/m3	IE OEL
1-methoxy-2-propanol	107-98-2	OELV - 15 min (STEL)	150 ppm 568 mg/m3	IE OEL
		OELV - 8 hrs (TWA)	100 ppm 375 mg/m3	IE OEL
		STEL	150 ppm 568 mg/m3	2000/39/EC
Further information: Identifies the possibility of significant uptake through the skin, Indicative				
		TWA	100 ppm 375 mg/m3	2000/39/EC
Further information: Identifies the possibility of significant uptake through the skin, Indicative				
Talc	14807-96-6	TWA (Respirable dust)	0.1 mg/m3	2004/37/EC
Further information: Carcinogens or mutagens				
		OELV - 8 hrs (TWA) (inhalable dust)	10 mg/m3	IE OEL

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		OELV - 8 hrs (TWA) (Respirable dust)	0.8 mg/m ³	IE OEL
2-methoxy-1-methylethyl acetate	108-65-6	OELV - 15 min (STEL)	100 ppm 550 mg/m ³	IE OEL
Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body				
		OELV - 8 hrs (TWA)	50 ppm 275 mg/m ³	IE OEL
Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body				
		STEL	100 ppm 550 mg/m ³	2000/39/EC
Further information: Identifies the possibility of significant uptake through the skin, Indicative				
		TWA	50 ppm 275 mg/m ³	2000/39/EC
Further information: Identifies the possibility of significant uptake through the skin, Indicative				

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health effects	Value
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	Workers	Inhalation	Long-term systemic effects	1500 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	900 mg/m ³
	Workers	Dermal	Long-term systemic effects	300 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	300 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	300 mg/kg bw/day
titanium dioxide	Workers	Inhalation	Long-term local effects	10 mg/m ³
	Consumers	Oral	Long-term systemic effects	700 mg/kg bw/day
Soybean oil, epoxidized, acrylate	Workers	Inhalation	Long-term systemic effects	11.75 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	2.9 mg/m ³
	Workers	Dermal	Long-term systemic effects	6.67 mg/m ³
	Consumers	Dermal	Long-term systemic effects	3.33 mg/m ³
	Consumers	Oral	Long-term systemic effects	1.67 mg/kg bw/day
barium sulfate	Consumers	Inhalation	Long-term systemic	10 mg/m ³

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			effects	
	Workers	Inhalation	Long-term systemic effects	10 mg/m3
	Consumers	Oral	Long-term systemic effects	13000 mg/kg bw/day
1-methoxy-2-propanol	Workers	Inhalation	Long-term systemic effects	369 mg/m3
	Workers	Inhalation	Acute systemic effects	553.5 mg/m3
	Workers	Inhalation	Acute local effects	553.5 mg/m3
	Workers	Inhalation	Long-term systemic effects	43.9 mg/m3
	Workers	Dermal	Long-term systemic effects	183 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	78 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	33 mg/kg bw/day
Talc	Workers	Inhalation	Acute systemic effects	2.16 mg/m3
	Workers	Inhalation	Acute local effects	3.6 mg/m3
	Consumers	Inhalation	Acute systemic effects	1.08 mg/m3
	Consumers	Inhalation	Acute local effects	1.8 mg/m3
	Consumers	Dermal	Long-term local effects	2.27 mg/cm2
	Workers	Dermal	Long-term local effects	4.54 mg/cm2
	Consumers	Oral	Long-term systemic effects	160 mg/kg bw/day
	Consumers	Oral	Acute systemic effects	160 mg/kg bw/day
	Workers	Dermal	Long-term systemic effects	43.2 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	21.6 mg/kg bw/day
2-methoxy-1-methylethyl acetate	Workers	Inhalation	Long-term systemic effects	275 mg/m3
	Workers	Inhalation	Acute local effects	550 mg/m3
	Consumers	Inhalation	Long-term systemic effects	33 mg/m3
	Consumers	Inhalation	Long-term local effects	33 mg/m3
	Workers	Dermal	Long-term systemic effects	796 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	320 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	36 mg/kg bw/day
mixture of sterically composed sebacates	Consumers	Ingestion	Long-term systemic effects	0.18 mg/kg bw/day

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	Consumers	Skin contact	Long-term systemic effects	0.9 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.31 mg/m3
	Workers	Skin contact	Long-term systemic effects	1.8 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	1.27 mg/m3
Strontium neodecanoate	Workers	Inhalation	Long-term systemic effects	3.32 mg/m3
	Workers	Dermal	Long-term systemic effects	0.850 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.820 mg/m3
	Consumers	Dermal	Long-term systemic effects	0.420 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0.420 mg/kg bw/day
2,3-epoxypropyl neodecanoate	Workers	Inhalation	Long-term systemic effects	2.7 mg/m3
	Workers	Inhalation	Acute systemic effects	10.4 mg/m3
	Consumers	Inhalation	Long-term systemic effects	1.6 mg/m3
	Workers	Dermal	Long-term systemic effects	1.9 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	1.15 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
titanium dioxide	Soil	100 mg/kg dry weight (d.w.)
	Marine water	0.0184 mg/l
	Fresh water	0.184 mg/l
	Marine sediment	100 mg/kg dry weight (d.w.)
	Fresh water sediment	1000 mg/kg dry weight (d.w.)
barium sulfate	Sewage treatment plant	100 mg/l
	Intermittent use/release	0.193 mg/l
	Soil	207.7 mg/kg dry weight (d.w.)
	Fresh water	0.115 mg/l
1-methoxy-2-propanol	Fresh water sediment	600.4 mg/kg dry weight (d.w.)
	Sewage treatment plant	62.2 mg/l
	Soil	4.59 mg/kg dry weight (d.w.)
	Marine water	1 mg/l
	Fresh water	10 mg/l

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	Marine sediment	5.2 mg/kg dry weight (d.w.)
	Fresh water sediment	52.3 mg/kg dry weight (d.w.)
	Sewage treatment plant	100 mg/l
	Intermittent use/release	100 mg/l
Talc	Marine water	141.26 mg/l
	Fresh water	597.97 mg/l
	Marine sediment	3.13 mg/kg dry weight (d.w.)
	Fresh water sediment	31.33 mg/kg dry weight (d.w.)
	Intermittent use/release	597.97 mg/l
2-methoxy-1-methylethyl acetate	Soil	0.29 mg/kg dry weight (d.w.)
	Marine water	0.0635 mg/l
	Fresh water	0.635 mg/l
	Marine sediment	0.329 mg/kg dry weight (d.w.)
	Fresh water sediment	3.29 mg/kg dry weight (d.w.)
	Sewage treatment plant	100 mg/l
	Intermittent use/release	0.00635 mg/l
mixture of sterically composed sebacates	Soil	0.21 mg/kg dry weight (d.w.)
	Sewage treatment plant	1 mg/l
	Marine water	0 mg/l
	Marine sediment	0.11 mg/kg dry weight (d.w.)
	Fresh water sediment	1.05 mg/kg dry weight (d.w.)
	Freshwater - intermittent	0.009 mg/l
	Fresh water	0.002 mg/l
Strontium neodecanoate	Oral (Secondary Poisoning)	17 mg/kg food
	Soil	0.061 mg/kg dry weight (d.w.)
	Marine water	0.011 mg/l
	Marine sediment	0.063 mg/kg dry weight (d.w.)
	Fresh water sediment	0.63 mg/kg dry weight (d.w.)
	Fresh water	0.11 mg/l
	Soil	136 mg/kg dry weight (d.w.)
	Sewage treatment plant	16.4 mg/l
	Fresh water sediment	2880 mg/kg dry weight (d.w.)
	Fresh water	2.1 mg/l
	Oral (Secondary Poisoning)	19 mg/kg food
	Soil	0.069 mg/kg dry weight (d.w.)

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	Sewage treatment plant	78.1 mg/l
	Marine water	0.012 mg/l
	Marine sediment	0.071 mg/kg dry weight (d.w.)
	Fresh water sediment	0.71 mg/kg dry weight (d.w.)
	Fresh water	0.123 mg/l
2,3-epoxypropyl neodecanoate	Marine water	0.00012 mg/l
	Fresh water	0.0012 mg/l
	Marine sediment	0.0015 mg/l
	Fresh water sediment	0.0124 mg/kg dry weight (d.w.)
	Sewage treatment plant	50 mg/l
	Intermittent use/release	0.012 mg/l

8.2 Exposure controls

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection : Equipment should conform to EN 166
Eye wash bottle with pure water
Tightly fitting safety goggles

Hand protection

Gloves : Nitrile rubber (> 0,1 mm; < 60 min); ISO EN374 |
Viton® (> 0,6 mm; < 240 min); ISO EN374 |
PE laminate (> 0,1 mm; < 240 min); ISO EN374 |

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
Equipment should conform to EN 14387

Filter type : Combined particulates and organic vapour type (A-P)
Protective measures : Wash thoroughly after handling.
Avoid contact with skin, eyes and clothing.
Keep away from food, drink and animal feedingstuffs.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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Physical state	:	liquid
Form	:	liquid
Colour	:	in accordance with the product description
Odour	:	solvent-like
Odour Threshold	:	No data available
Melting point/freezing point	:	< 0.0 °C (calculation method (principal components, lowest value))
Boiling point/boiling range	:	155 - 192 °C (calculation method (principal components, lowest value))
Flammability	:	Static-accumulating flammable liquid., Combustible Solids
Flash point	:	40 °C (calculation method (principal components, lowest value))
Decomposition temperature	:	No decomposition if stored and applied as directed. Hazardous decomposition products formed under fire conditions.
pH	:	No data available
Viscosity		
Viscosity, kinematic	:	> 20.5 mm ² /s (40 °C)
Flow time	:	> 40 s at 23 °C Cross section: 6 mm Method: ISO 2431
Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents	:	Description: miscible with most organic solvents
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	2 hPa (calculation method (principal components, highest value))
Relative density	:	No data available
Density	:	1.10 - 1.20 g/cm ³

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Relative vapour density : No data available

9.2 Other information

Explosives : Not applicable

Oxidizing properties : Sustains combustion

VOC : (Directive 2004/42/EC)
500 g/l

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Incompatible with strong acids and bases.

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

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

Acute toxicity

Not classified based on available information.
Not classified due to lack of data.

Components:

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics:

Acute oral toxicity : LD50 Oral: 5000 milligram per kilogram

Acute inhalation toxicity : LC50 (Rat): 5.61 mg/l
Test atmosphere: vapour

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Acute dermal toxicity : LD50: 2000 milligram per kilogram

hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:

Acute oral toxicity : LD50 Oral (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 5,000 mg/l
Test atmosphere: vapour
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402

1-methoxy-2-propanol:

Acute oral toxicity : LD50 Oral (Rabbit): > 2,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

2-methoxy-1-methylethyl acetate:

Acute oral toxicity : LD50 Oral (Rat): > > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l
Test atmosphere: vapour

LC0 (Rat): 2000 ppm
Exposure time: 3 h

Acute dermal toxicity : LD50 (Rabbit): > > 2,000 mg/kg

mixture of sterically composed sebacates:

Acute oral toxicity : Assessment: Not classified due to data which are conclusive
although insufficient for classification.

LD50 (Rat): 3,125 mg/kg
Method: OECD Test Guideline 423
The test was conducted equivalent or similar to guideline

LD50 (Rat): 3,230 mg/kg
Method: OECD Test Guideline 423
The test was conducted equivalent or similar to guideline

Acute inhalation toxicity : Assessment: Not classified due to lack of data.

Acute dermal toxicity : Assessment: Not classified due to data which are conclusive
although insufficient for classification.

LD50: > 3,170 mg/kg

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LD50 (Rat): > 3,170 mg/kg
Method: OECD Test Guideline 402
The test was conducted equivalent or similar to guideline

Strontium neodecanoate:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

Acute dermal toxicity : LD50 (Rat): > 3,640 mg/kg
Method: OECD Test Guideline 402
The test was conducted equivalent or similar to guideline

2,3-epoxypropyl neodecanoate:

Acute oral toxicity : Assessment: Not classified due to data which are conclusive although insufficient for classification.

LD50 (Rat): > 970,000 mg/kg

LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 420
The test was conducted according to guideline

Acute inhalation toxicity : Assessment: Not classified due to data which are conclusive although insufficient for classification.

Acute dermal toxicity : Assessment: Not classified due to data which are conclusive although insufficient for classification.

LD50 (Rat): > 3,900 mg/kg

LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
The test was conducted according to guideline

Kaolin:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

Talc:

Acute oral toxicity : LD50 (Rat, male): > 5,000 mg/kg
Method: OECD Test Guideline 423
The test was conducted according to guideline

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
The test was conducted according to guideline

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Skin corrosion/irritation

Not classified based on available information.
Not classified due to lack of data.

Product:

Remarks : May cause skin irritation and/or dermatitis.

Components:

hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: No skin irritation
GLP	: yes
Result	: Repeated exposure may cause skin dryness or cracking.

1-methoxy-2-propanol:

Species	: Rabbit
Method	: Regulation (EC) No. 440/2008, Annex, B.4
Result	: No skin irritation
Remarks	: The test was conducted equivalent or similar to guideline

2-methoxy-1-methylethyl acetate:

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: No skin irritation
Remarks	: The test was conducted equivalent or similar to guideline

mixture of sterically composed sebacates:

Result	: Not classified due to data which are conclusive although insufficient for classification.
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Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: No skin irritation
Remarks	: The test was conducted equivalent or similar to guideline

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: No skin irritation
Remarks	: The test was conducted equivalent or similar to guideline

Strontium neodecanoate:

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: No skin irritation
Remarks	: The test was conducted according to guideline

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2,3-epoxypropyl neodecanoate:

Result : Not classified due to data which are conclusive although insufficient for classification.

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
Remarks : The test was conducted according to guideline

Kaolin:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Talc:

Species : reconstructed human epidermis (RhE)
Result : No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.
Not classified due to lack of data.

Product:

Remarks : Vapours may cause irritation to the eyes, respiratory system and the skin.

Components:

hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation

1-methoxy-2-propanol:

Species : Rabbit
Method : Regulation (EC) No. 440/2008, Annex, B.5
Result : No eye irritation
Remarks : The test was conducted equivalent or similar to guideline

2-methoxy-1-methylethyl acetate:

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation
Remarks : The test was conducted equivalent or similar to guideline

mixture of sterically composed sebacates:

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Result : Not classified due to data which are conclusive although insufficient for classification.

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation
Remarks : The test was conducted equivalent or similar to guideline

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation
Remarks : The test was conducted equivalent or similar to guideline

Strontium neodecanoate:

Result : Irreversible effects on the eye

2,3-epoxypropyl neodecanoate:

Result : Not classified due to data which are conclusive although insufficient for classification.

Species : Rabbit
Result : No eye irritation

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation
Remarks : The test was conducted according to guideline

Kaolin:

Species : Rabbit
Result : No eye irritation

Talc:

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation
Remarks : The test was conducted according to guideline

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified based on available information.

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Respiratory sensitisation

Not classified due to lack of data.

Product:

Remarks : Causes sensitisation.

Components:

hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:

Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Not a skin sensitizer.

1-methoxy-2-propanol:

Assessment : Not classified due to data which are conclusive although insufficient for classification.

Test Type	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: Regulation (EC) No. 440/2008, Annex, B.6
Result	: negative
Remarks	: The test was conducted equivalent or similar to guideline

Assessment : Not classified due to data which are conclusive although insufficient for classification.

2-methoxy-1-methylethyl acetate:

Assessment : Not classified due to data which are conclusive although insufficient for classification.

Test Type	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: negative
Remarks	: The test was conducted according to guideline

Assessment : Not classified due to data which are conclusive although insufficient for classification.

mixture of sterically composed sebacates:

Result : May cause sensitisation by skin contact.

Strontium neodecanoate:

Assessment : Not classified due to data which are conclusive although insufficient for classification.

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Test Type	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: negative
Remarks	: The test was conducted according to guideline

Assessment	: Not classified due to lack of data.
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2,3-epoxypropyl neodecanoate:

Result	: Probability or evidence of skin sensitisation in humans
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Talc:

Assessment	: Not classified due to data which are conclusive although insufficient for classification.
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Test Type	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: negative
Remarks	: The test was conducted according to guideline

Assessment	: Not classified due to data which are conclusive although insufficient for classification.
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Exposure routes	: Inhalation
Species	: Rat
Result	: negative
Remarks	: No test guideline followed

Germ cell mutagenicity

Not classified based on available information.

Not classified due to lack of data.

Components:

hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:

Genotoxicity in vitro	: Result: negative
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Genotoxicity in vivo	: Result: negative
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1-methoxy-2-propanol:

Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative The test was conducted equivalent or similar to guideline
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Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative
The test was conducted equivalent or similar to guideline

Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative
The test was conducted equivalent or similar to guideline

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse
Application Route: Intraperitoneal
Method: OECD Test Guideline 474
Result: negative
The test was conducted equivalent or similar to guideline

Germ cell mutagenicity- Assessment : Not classified due to data which are conclusive although insufficient for classification.

2-methoxy-1-methylethyl acetate:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative
The test was conducted equivalent or similar to guideline

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 473
Result: negative
The test was conducted equivalent or similar to guideline

Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative
The test was conducted equivalent or similar to guideline

Germ cell mutagenicity- Assessment : Not classified due to data which are conclusive although insufficient for classification.

mixture of sterically composed sebacates:

Genotoxicity in vitro : Result: negative

Result: negative

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative
The test was conducted according to guideline

Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471

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Result: negative
The test was conducted equivalent or similar to guideline

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: positive
The test was conducted according to guideline

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative
The test was conducted according to guideline

Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative
The test was conducted equivalent or similar to guideline

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse
Application Route: oral (gavage)
Method: OECD Test Guideline 474
Result: negative
The test was conducted according to guideline

Strontium neodecanoate:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative
The test was conducted according to guideline

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative
The test was conducted according to guideline

Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative
The test was conducted according to guideline

2,3-epoxypropyl neodecanoate:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Result: equivocal

Test Type: yeast cytogenetic assay
Method: OECD Test Guideline 481
Result: negative
The test was conducted equivalent or similar to guideline

Test Type: Bacterial reverse mutation assay (AMES)

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Method: OECD Test Guideline 471
Result: positive
The test was conducted equivalent or similar to guideline

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative
The test was conducted according to guideline

Test Type: in vitro mammalian cell transformation assay
Result: negative

Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: positive
The test was conducted according to guideline

Genotoxicity in vivo

: Test Type: Alkaline elution assay
Species: Rat
Application Route: oral (gavage)
Result: negative

Test Type: Transgenic rodent mutagenicity assay
Species: Mouse
Application Route: oral (gavage)
Result: positive

Test Type: Transgenic rodent mutagenicity assay
Species: Mouse
Application Route: oral (gavage)
Method: OECD Test Guideline 488
Result: negative
The test was conducted according to guideline

Test Type: unscheduled DNA synthesis assay
Species: Rat
Application Route: oral (gavage)
Method: OECD Test Guideline 486
Result: negative
The test was conducted according to guideline

Talc:

Genotoxicity in vitro

: Test Type: in vitro mammalian cell transformation assay
Method: OECD Test Guideline 473
Result: negative
The test was conducted equivalent or similar to guideline

Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative
The test was conducted equivalent or similar to guideline

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Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)
Species: Rat
Application Route: oral (gavage)
Method: OECD Test Guideline 478
Result: negative
The test was conducted equivalent or similar to guideline

Germ cell mutagenicity- Assessment : Not classified due to data which are conclusive although insufficient for classification.

Carcinogenicity

Not classified based on available information.
Not classified due to lack of data.

Components:

hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:

Result : negative

1-methoxy-2-propanol:

Species : Rat
Application Route : inhalation (vapour)
Exposure time : 2 yr
Method : OECD Test Guideline 453
Result : negative
Remarks : The test was conducted according to guideline

Carcinogenicity - Assessment : Not classified due to data which are conclusive although insufficient for classification.

2-methoxy-1-methylethyl acetate:

Species : Rat
Application Route : inhalation (vapour)
Exposure time : 2 yr
Method : OECD Test Guideline 453
Result : negative
Remarks : The test was conducted according to guideline

Carcinogenicity - Assessment : Not classified due to data which are conclusive although insufficient for classification.

Talc:

Species : Mouse
Application Route : inhalation (dust/mist/fume)
Exposure time : 104 Weeks
Method : OECD Test Guideline 453
Result : negative
Remarks : The test was conducted according to guideline

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Species	:	Rat
Application Route	:	oral (feed)
Exposure time	:	101 d
Method	:	OECD Test Guideline 453
Result	:	negative
Remarks	:	The test was conducted according to guideline
Carcinogenicity - Assessment	:	Not classified due to data which are conclusive although insufficient for classification.

Reproductive toxicity

Not classified based on available information.
Not classified due to lack of data.

Components:

hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:

Effects on foetal development	:	Fertility and developmental toxicity tests did not reveal any effect on reproduction.
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1-methoxy-2-propanol:

Effects on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: inhalation (vapour) Method: OECD Test Guideline 416 Result: positive The test was conducted according to guideline
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Test Type: Two-generation reproduction toxicity study
Species: Mouse
Application Route: oral (drinking water)
Result: negative

Effects on foetal development	:	Test Type: Developmental Toxicity Species: Rat Application Route: Inhalation Result: negative The test was conducted equivalent or similar to guideline
-------------------------------	---	---

Test Type: Developmental Toxicity
Species: Rat
Application Route: oral (gavage)
Result: negative
No test guideline followed

Reproductive toxicity - Assessment	:	Not classified due to data which are conclusive although insufficient for classification.
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Not classified due to data which are conclusive although insufficient for classification.

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2-methoxy-1-methylethyl acetate:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: inhalation (vapour)
Method: OECD Test Guideline 416
Result: positive
The test was conducted according to guideline

Test Type: Screening test
Species: Rat
Application Route: oral (gavage)
Method: OECD Test Guideline 422
Result: negative
The test was conducted according to guideline

Effects on foetal development : Test Type: Developmental Toxicity
Species: Rat
Application Route: Inhalation
Result: negative
The test was conducted equivalent or similar to guideline

Reproductive toxicity - Assessment : Not classified due to data which are conclusive although insufficient for classification.

Not classified due to data which are conclusive although insufficient for classification.

mixture of sterically composed sebacates:

Effects on fertility : Test Type: One-generation reproduction toxicity study
Species: Rat
Application Route: oral (gavage)
Method: OECD Test Guideline 415
Result: negative
The test was conducted according to guideline

Test Type: Extended one-generation reproduction toxicity study
Result: positive

Test Type: Screening test
Species: Rat
Application Route: oral (feed)
Method: OECD Test Guideline 422
Result: positive
The test was conducted according to guideline

Test Type: Extended one-generation reproduction toxicity study
Species: Rat
Application Route: oral (feed)

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		Method: OECD Test Guideline 443 Result: positive The test was conducted according to guideline
Effects on foetal development	:	Test Type: Developmental Toxicity Species: Rabbit Result: negative Test Type: Developmental Toxicity Species: Rabbit Application Route: oral (gavage) Result: negative The test was conducted according to guideline Test Type: Developmental Toxicity Species: Rat Application Route: oral (gavage) Result: negative The test was conducted according to guideline
Reproductive toxicity - Assessment	:	Some evidence of adverse effects on sexual function and fertility, based on animal experiments.
Strontium neodecanoate:		
Effects on fertility	:	Test Type: Three-generation reproduction toxicity study Species: Rat Application Route: oral (feed) Method: OECD Test Guideline 416 Result: negative The test was conducted equivalent or similar to guideline
Effects on foetal development	:	Test Type: Developmental Toxicity Species: Rat Application Route: oral (gavage) Result: positive The test was conducted according to guideline
Reproductive toxicity - Assessment	:	Clear evidence of adverse effects on development, based on animal experiments.
2,3-epoxypropyl neodecanoate:		
Effects on fertility	:	Test Type: Extended one-generation reproduction toxicity study Species: Rat Application Route: oral (gavage) Method: OECD Test Guideline 443 Result: positive The test was conducted according to guideline
Effects on foetal development	:	Test Type: Developmental Toxicity Species: Rabbit

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Application Route: oral (gavage)
Result: negative
The test was conducted according to guideline

Test Type: Developmental Toxicity
Species: Rat
Application Route: oral (gavage)
Result: negative
The test was conducted according to guideline

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

Talc:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rabbit, female
Application Route: oral (gavage)
Method: OECD Test Guideline 416
Result: negative
The test was conducted equivalent or similar to guideline

Effects on foetal development : Test Type: Developmental Toxicity
Species: Rat
Application Route: oral (gavage)
Result: negative
The test was conducted equivalent or similar to guideline

Reproductive toxicity - Assessment : Not classified due to data which are conclusive although insufficient for classification.

Not classified due to data which are conclusive although insufficient for classification.

STOT - single exposure

May cause drowsiness or dizziness.
May cause drowsiness or dizziness.

Components:

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics:

Assessment : May cause drowsiness or dizziness.

hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:

Remarks : Based on available data, the classification criteria are not met.

1-methoxy-2-propanol:

Assessment : May cause drowsiness or dizziness.

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2-methoxy-1-methylethyl acetate:

Assessment : May cause drowsiness or dizziness.

mixture of sterically composed sebacates:

Assessment : Not classified due to data which are conclusive although insufficient for classification.

Strontium neodecanoate:

Exposure routes : Dermal
Assessment : Not classified due to data which are conclusive although insufficient for classification.

2,3-epoxypropyl neodecanoate:

Assessment : Not classified due to data which are conclusive although insufficient for classification.

Talc:

Assessment : Not classified due to data which are conclusive although insufficient for classification.

STOT - repeated exposure

Not classified based on available information.
Not classified due to lack of data.

Components:

hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:

Remarks : Based on available data, the classification criteria are not met.

1-methoxy-2-propanol:

Assessment : Not classified due to data which are conclusive although insufficient for classification.

2-methoxy-1-methylethyl acetate:

Assessment : Not classified due to data which are conclusive although insufficient for classification.

mixture of sterically composed sebacates:

Assessment : Not classified due to data which are conclusive although insufficient for classification.

Strontium neodecanoate:

Exposure routes : Oral
Assessment : Not classified due to data which are conclusive although insufficient for classification.

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2,3-epoxypropyl neodecanoate:

Assessment : Not classified due to data which are conclusive although insufficient for classification.

Talc:

Assessment : Not classified due to data which are conclusive although insufficient for classification.

Aspiration hazard

Not classified based on available information.
Not classified due to lack of data.

Components:

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics:

May be fatal if swallowed and enters airways.

hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:

May be fatal if swallowed and enters airways.

1-methoxy-2-propanol:

Not classified due to data which are conclusive although insufficient for classification.

2-methoxy-1-methylethyl acetate:

Not classified due to data which are conclusive although insufficient for classification.

mixture of sterically composed sebacates:

Not classified due to lack of data.

Strontium neodecanoate:

Not classified due to lack of data.

2,3-epoxypropyl neodecanoate:

Not classified due to data which are conclusive although insufficient for classification.

Talc:

Not classified due to data which are conclusive although insufficient for classification.

11.2 Information on other hazards

Endocrine disrupting properties

Not classified due to lack of data.

Product:

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Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Concentrations substantially above the TLV value may cause narcotic effects.
Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 : > 1,000 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (microalgae)): 1,000 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC50 (Pseudokirchneriella subcapitata (microalgae)): > 1,000 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

1-methoxy-2-propanol:

Toxicity to fish : LC50 (Fish): > 1,000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)): > 1,000 mg/l

Toxicity to algae/aquatic plants : LC50 (algae): > 1,000 mg/l

Toxicity to microorganisms : EC10 (Pseudomonas putida): > 10,000 mg/l

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Exposure time: 17 h
Method: DIN 38412
The test was conducted according to guideline

IC50 (activated sludge): > 1,000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
The test was conducted according to guideline

2-methoxy-1-methylethyl acetate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 130 mg/l
Exposure time: 96 h

NOEC : 100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : LC50 : 408 mg/l
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : NOEC (Pseudokirchneriella subcapitata (green algae)): >=
plants 1,000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 201
The test was conducted according to guideline

EC50 (Pseudokirchneriella subcapitata (green algae)): >
1,000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 201
The test was conducted according to guideline

Toxicity to microorganisms : EC10 (activated sludge): > 1,000 mg/l
Exposure time: 30 min
Method: OECD Test Guideline 209
The test was conducted equivalent or similar to guideline

Toxicity to fish (Chronic tox- : EC10: 47.5 mg/l
icity)

Toxicity to daphnia and other : NOEC: >= 100 mg/l
aquatic invertebrates (Chron- Exposure time: 21 d
ic toxicity) Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211
The test was conducted according to guideline

mixture of sterically composed sebacates:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.97 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
The test was conducted according to guideline

LC50 (Danio rerio (zebra fish)): 0.9 mg/l

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Exposure time: 96 h
Method: OECD Test Guideline 203
The test was conducted according to guideline

Toxicity to algae/aquatic plants : EC10 (Desmodesmus subspicatus (green algae)): 0.34 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
The test was conducted according to guideline

EC50 (Desmodesmus subspicatus (green algae)): 1.68 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
The test was conducted according to guideline

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : IC50 (activated sludge): ≥ 100 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
The test was conducted equivalent or similar to guideline

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: ≥ 6.3 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211
The test was conducted according to guideline

M-Factor (Chronic aquatic toxicity) : 1

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Strontium neodecanoate:

Toxicity to algae/aquatic plants : EC10 (Pseudokirchneriella subcapitata (green algae)): 24.3 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
The test was conducted according to guideline

Toxicity to fish (Chronic toxicity) : NOEC: > 2.22 mg/l
Exposure time: 14 d
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 3.4 mg/l
Exposure time: 7 d
Species: Ceriodaphnia dubia (water flea)
Method: OECD Test Guideline 211
The test was conducted equivalent or similar to guideline

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2,3-epoxypropyl neodecanoate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 9.6 mg/l
Exposure time: 96 h
Method: OTS 797.1400
The test was conducted according to guideline

LC50 (Oncorhynchus mykiss (rainbow trout)): 5 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
The test was conducted according to guideline

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4.8 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
The test was conducted according to guideline

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 3.5 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 201
The test was conducted according to guideline

EC50 (Pseudokirchneriella subcapitata (green algae)): 2.9 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
The test was conducted according to guideline

Toxicity to microorganisms : NOEC (activated sludge): 500 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
The test was conducted according to guideline

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Components:

hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 80 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

1-methoxy-2-propanol:

Biodegradability : Result: Readily biodegradable.

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Biodegradation: 96 %
Exposure time: 28 d
Method: OECD Test Guideline 301E
The test was conducted according to guideline

2-methoxy-1-methylethyl acetate:

Biodegradability : Readily biodegradable.

Strontium neodecanoate:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 11 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
The test was conducted according to guideline

2,3-epoxypropyl neodecanoate:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 11.6 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
The test was conducted according to guideline

Result: Inherently biodegradable.
Biodegradation: ≥ 73 %
Exposure time: 36 d
Method: OECD Test Guideline 302A
The test was conducted according to guideline

Result: Not readily biodegradable.
Method: OECD Test Guideline 302C
The test was conducted according to guideline

Result: Not readily biodegradable.
Biodegradation: 7 - 8 %
Exposure time: 28 d
Method: OECD Test Guideline 301D
The test was conducted according to guideline

12.3 Bioaccumulative potential

Components:

1-methoxy-2-propanol:

Partition coefficient: n-octanol/water : log Pow: -0.437

2-methoxy-1-methylethyl acetate:

Partition coefficient: n-octanol/water : log Pow: 1.2 (20 °C)
pH: 6.8

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mixture of sterically composed sebacates:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): < 31.4

Partition coefficient: n-
octanol/water : log Pow: 2.37 - 2.77
pH: 7

Strontium neodecanoate:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
Bioconcentration factor (BCF): < 225
Method: OECD Test Guideline 305
The test was conducted equivalent or similar to guideline

2,3-epoxypropyl neodecanoate:

Partition coefficient: n-
octanol/water : log Pow: 3.73

log Pow: 2.6 (25 °C)

log Pow: 4.4 (25 °C)
pH: 6.7
Method: OECD Test Guideline 107
The test was conducted equivalent or similar to guideline

Talc:

Partition coefficient: n-
octanol/water : log Pow: -9.4 (25 °C)
pH: 7
No test guideline followed

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:

Assessment : Not persistent, bioaccumulative, and toxic (PBT).

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

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ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.
Waste Code	: 08 00 00, WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS 08 01 00, wastes from MFSU and removal of paint and varnish 08 01 11, waste paint and varnish containing organic solvents or other hazardous substances 15 00 00, WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED 15 01 00, packaging (including separately collected municipal packaging waste) 15 01 10, packaging containing residues of or contaminated by hazardous substances HP3, Flammable HP13, Sensitising

SECTION 14: Transport information

14.1 UN number or ID number

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ADN	:	UN 1263
ADR	:	UN 1263
RID	:	UN 1263
IMDG	:	UN 1263
IATA	:	UN 1263

14.2 UN proper shipping name

ADN	:	PAINT
ADR	:	PAINT
RID	:	PAINT
IMDG	:	PAINT
IATA	:	Paint

14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	: 3	
ADR	: 3	
RID	: 3	
IMDG	: 3	
IATA	: 3	

14.4 Packing group

ADN	
Packing group	: III
Classification Code	: F1
Hazard Identification Number	: 30
Labels	: 3
ADR	
Packing group	: III
Classification Code	: F1
Hazard Identification Number	: 30
Labels	: 3
Tunnel restriction code	: (D/E)
RID	
Packing group	: III
Classification Code	: F1
Hazard Identification Number	: 30
Labels	: 3
IMDG	
Packing group	: III
Labels	: 3

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EmS Code : F-E, S-E

IATA (Cargo)

Packing instruction (cargo aircraft) : 366

Packing instruction (LQ) : Y344

Packing group : III

Labels : Flammable Liquids

IATA (Passenger)

Packing instruction (passenger aircraft) : 355

Packing instruction (LQ) : Y344

Packing group : III

Labels : Flammable Liquids

14.5 Environmental hazards

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

Remarks : ADR: Packages smaller than or equal to 450 litres, not goods/merchandise of Class 3 (exemption ADR 2.2.3.1.5)
IMDG: Packages smaller than or equal to 450 litres(transport acc. IMDG-code 2.3.2.5)

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:
Number on list 3

Number on list 40
This substance/mixture shall not be

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used in aerosol dispensers intended for supply to the general public for entertainment and decorative purposes.

Number on list 75
If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EU) No 2024/590 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	P5c	FLAMMABLE LIQUIDS
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Volatile organic compounds : Directive 2004/42/EC
Volatile organic compounds (VOC) content: 500 g/l

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H226	:	Flammable liquid and vapour.
H302	:	Harmful if swallowed.
H304	:	May be fatal if swallowed and enters airways.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H336	:	May cause drowsiness or dizziness.
H341	:	Suspected of causing genetic defects.
H360D	:	May damage the unborn child.
H361d	:	Suspected of damaging the unborn child.

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H361f	: Suspected of damaging fertility.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.
EUH066	: Repeated exposure may cause skin dryness or cracking.
H317	: May cause an allergic skin reaction.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Eye Dam.	: Serious eye damage
Flam. Liq.	: Flammable liquids
Muta.	: Germ cell mutagenicity
Repr.	: Reproductive toxicity
Skin Sens.	: Skin sensitisation
STOT SE	: Specific target organ toxicity - single exposure
Skin Sens.	: Skin sensitisation
2000/39/EC	: Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
2004/37/EC	: Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens, mutagens or reprotoxic substances at work - Annex III
IE OEL	: Ireland. List of Chemical Agents and Carcinogens with Occupational Exposure Limit Values - Code of Practice, Schedule 1 and 2
2000/39/EC / TWA	: Limit Value - eight hours
2000/39/EC / STEL	: Short term exposure limit
2004/37/EC / TWA	: Long term exposure limit
IE OEL / OELV - 8 hrs (TWA)	: Occupational exposure limit value (8-hour reference period)
IE OEL / OELV - 15 min (STEL)	: Occupational exposure limit value (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - Interna-

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tional Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Flam. Liq. 3	H226
STOT SE 3	H336
Aquatic Chronic 3	H412

Classification procedure:

Based on product data or assessment
Calculation method
Calculation method

Material codes (bulk) for which the SDS is valid	400677 , 401630, 401631, 401632, 401633, 401634, 401635, 401638, 401703, 401704, 401705, 401706, 401707, 401791, 401796, 401797, 403014
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