

SAFETY DATA SHEET

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



Commercial Product Name: Graffiti-Entferner 904-28
Quality No.: 9042800000000

Revision Date 18.06.2024
Print Date 18.06.2024
Version 3

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

1.1 Product identifier

Trade name : Graffiti-Entferner 904-28 farblos / transparent

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

Use of the Sub- : Industrial serial painting
stance/Mixture

1.3 Details of the supplier of the safety data sheet

Mankiewicz Gebr. & Co. (GmbH & Co. KG)
Georg-Wilhelm-Strasse 189
21107 Hamburg
Germany

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Supplied by Mankiewicz UK LLP
26 Ashville Way, Whetstone,
Leicester LE8 6NU
United Kingdom

Telephone +49 (0) 40 75103 0
E-mail address of person sdb_info@umco.de
responsible for the SDS

1.4 Emergency telephone number

Emergency telephone num- : +44 1865 407333 (NCEC)
ber

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



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Signal word : Warning

Hazard statements : H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ eye protection/ face protection.

Response:
P302 + P352 IF ON SKIN: Wash with plenty of water.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

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.

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.

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

Chemical nature : Paint remover, solvent containing

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8 287-809-4 01-2119489463-28	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 12.5 - < 20
		specific concentration	



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		limit 2; H319 10 - 20 % 1; H318 > 20 %	
1-phenoxypropan-2-ol	770-35-4 212-222-7 01-2119486566-23	Eye Irrit. 2; H319	>= 5 - < 10
White mineral oil (petroleum)	8042-47-5 232-455-8 01-2119487078-27	Asp. Tox. 1; H304	>= 5 - < 12.5
triethyl phosphate	78-40-0 201-114-5 015-013-00-7 01-2119492852-28	Acute Tox. 4; H302 Eye Irrit. 2; H319 Acute toxicity estimate Acute oral toxicity: 1,131 mg/kg	>= 5 - < 10
Methyl dodec-9-enoate	39202-17-0 700-618-7 01-2119987586-15	Aquatic Acute 1; H400 M-Factor (Acute aquatic toxicity): 1	>= 5 - < 12.5
benzyl acetate	140-11-4 205-399-7 01-2119638272-42	Aquatic Chronic 3; H412	>= 1 - < 2.5
Alcohols, C9-11, ethoxylated	68439-46-3	Eye Irrit. 2; H319	>= 1 - < 5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : In all cases of doubt, or when sickness symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.
- If inhaled : Remove to fresh air, keep patient warm and at rest.
Irregular breathing/no breathing: artificial respiration.
If unconscious place in recovery position and seek medical advice.
- In case of skin contact : Take off all contaminated clothing immediately.
Wash skin thoroughly with soap and water or use recognised skin cleanser.
Do NOT use solvents or thinners !
- In case of eye contact : Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and



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seek medical advice.

If swallowed : Do NOT induce vomiting.
If accidentally swallowed obtain immediate medical attention.
Never give anything by mouth to an unconscious person.
Keep at rest.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Causes skin irritation.
Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : ABC powder

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

5.3 Advice for firefighters

Special protective equipment for firefighters : Appropriate breathing apparatus may be required.

Further information : Cool endangered containers with water in case of fire.
DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO ENTER DRAINS OR WATER COURSES!!

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Exclude sources of ignition and ventilate the area.
Do not inhale vapours.
Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Do not let product enter drains.
If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regula-

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tions (see chapter 13).
Clean preferably with a detergent; avoid use of solvents.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits.
Comply with the health and safety at work laws.
Smoking, eating and drinking should be prohibited in the application area.
Observe specific national regulations for handling and use of paints.

Advice on protection against fire and explosion : The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing. No sparking tools should be used. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type. Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Further information on storage conditions : Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep container dry in a cool, well-ventilated place.

Advice on common storage : Keep away from oxidizing agents and strongly acid or alkaline materials.

Recommended storage temperature : 10 - 25 °C

7.3 Specific end use(s)

Specific use(s) : This information is not available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Workers	Inhalation	Long-term systemic effects	285 mg/m ³
	Workers	Dermal	Long-term systemic effects	4060 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	85 mg/m ³
	Consumers	Dermal	Long-term systemic effects	2440 mg/kg bw/day
1-phenoxypropan-2-ol	Consumers	Oral	Long-term systemic effects	24 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	25.7 mg/m ³
	Workers	Skin contact	Long-term systemic effects	42 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	21 mg/kg bw/day
White mineral oil (petroleum)	Consumers	Oral	Long-term systemic effects	3.65 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	160 mg/m ³
	Workers	Dermal	Long-term systemic effects	220 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	35 mg/m ³
triethyl phosphate	Consumers	Dermal	Long-term systemic effects	93 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	9.9 mg/m ³
	Workers	Dermal	Long-term systemic effects	2 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1.74 mg/m ³
benzyl acetate	Consumers	Dermal	Long-term systemic effects	1 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	1 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	9 mg/m ³
	Workers	Dermal	Long-term systemic effects	2.5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2.2 mg/m ³
	Consumers	Dermal	Long-term systemic effects	1.3 mg/kg

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	Consumers	Oral	effects	bw/day
			Long-term systemic effects	1.3 mg/kg bw/day
oxydipropanol	Workers	Inhalation	Long-term systemic effects	238 mg/m3
	Workers	Dermal	Long-term systemic effects	84 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	70 mg/m3
	Consumers	Dermal	Long-term systemic effects	51 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	24 mg/kg bw/day
dimethyl adipate	Workers	Inhalation	Long-term local effects	8.3 mg/m3
	Consumers	Inhalation	Long-term local effects	5 mg/m3
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Workers	Inhalation	Long-term systemic effects	285 mg/m3
	Workers	Dermal	Long-term systemic effects	4060 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	85 mg/m3
	Consumers	Dermal	Long-term systemic effects	2440 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	24 mg/kg bw/day
1-phenoxypropan-2-ol	Workers	Inhalation	Long-term systemic effects	25.7 mg/m3
	Workers	Skin contact	Long-term systemic effects	42 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	21 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	3.65 mg/kg bw/day
White mineral oil (petroleum)	Workers	Inhalation	Long-term systemic effects	160 mg/m3
	Workers	Dermal	Long-term systemic effects	220 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	35 mg/m3
	Consumers	Dermal	Long-term systemic effects	93 mg/kg bw/day
triethyl phosphate	Workers	Inhalation	Long-term systemic effects	9.9 mg/m3
	Workers	Dermal	Long-term systemic effects	2 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1.74 mg/m3
	Consumers	Dermal	Long-term systemic effects	1 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	1 mg/kg

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			effects	bw/day
benzyl acetate	Workers	Inhalation	Long-term systemic effects	9 mg/m ³
	Workers	Dermal	Long-term systemic effects	2.5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2.2 mg/m ³
	Consumers	Dermal	Long-term systemic effects	1.3 mg/kg bw/day
oxydipropanol	Consumers	Oral	Long-term systemic effects	1.3 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	238 mg/m ³
	Workers	Dermal	Long-term systemic effects	84 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	70 mg/m ³
dimethyl adipate	Consumers	Dermal	Long-term systemic effects	51 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	24 mg/kg bw/day
	Workers	Inhalation	Long-term local effects	8.3 mg/m ³
	Consumers	Inhalation	Long-term local effects	5 mg/m ³

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

Substance name	Environmental Compartment	Value
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Fresh water	0.131 mg/l
	Marine water	0.013 mg/l
	Sewage treatment plant	1.35 mg/l
	Fresh water sediment	4.61 mg/kg dry weight (d.w.)
	Marine sediment	0.461 mg/kg dry weight (d.w.)
	Soil	0.846 mg/kg dry weight (d.w.)
1-phenoxypropan-2-ol	Fresh water	0.1 mg/l
	Marine water	0.01 mg/l
	Fresh water sediment	0.38 mg/kg dry weight (d.w.)
	Marine sediment	0.038 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
triethyl phosphate	Soil	0.02 mg/kg dry weight (d.w.)
	Fresh water	0.632 mg/l
	Marine water	0.063 mg/l
	Sewage treatment plant	298.5 mg/l
	Fresh water sediment	5 mg/kg dry weight (d.w.)
	Marine sediment	0.5 mg/kg dry



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		weight (d.w.)
	Soil	0.64 mg/kg dry weight (d.w.)
Methyl dodec-9-enoate	Fresh water	0.001 mg/l
	Marine water	0 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0.429 mg/kg dry weight (d.w.)
	Marine sediment	0.043 mg/kg dry weight (d.w.)
	Soil	0.085 mg/kg dry weight (d.w.)
benzyl acetate	Fresh water	0.018 mg/l
	Marine water	0.002 mg/l
	Fresh water sediment	0.526 mg/kg dry weight (d.w.)
	Marine sediment	0.053 mg/kg dry weight (d.w.)
	Sewage treatment plant	8.55 mg/l
	Soil	0.094 mg/kg dry weight (d.w.)
oxydipropanol	Fresh water	0.1 mg/l
	Marine water	0.01 mg/l
	Fresh water sediment	0.238 mg/kg dry weight (d.w.)
	Marine sediment	0.024 mg/kg dry weight (d.w.)
	Sewage treatment plant	1000 mg/l
	Soil	0.025 mg/kg dry weight (d.w.)
dimethyl adipate	Fresh water	0.018 mg/l
	Marine water	0.002 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0.16 mg/kg dry weight (d.w.)
	Marine sediment	0.016 mg/kg dry weight (d.w.)
	Soil	0.09 mg/kg dry weight (d.w.)
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Fresh water	0.131 mg/l
	Marine water	0.013 mg/l
	Sewage treatment plant	1.35 mg/l
	Fresh water sediment	4.61 mg/kg dry weight (d.w.)
	Marine sediment	0.461 mg/kg dry weight (d.w.)
	Soil	0.846 mg/kg dry weight (d.w.)
1-phenoxypropan-2-ol	Fresh water	0.1 mg/l
	Marine water	0.01 mg/l
	Fresh water sediment	0.38 mg/kg dry weight (d.w.)

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DE85 2001 0020 0000 3732 05

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Persönlich haftende Gesellschafterin:
Grau Gebr. Beteiligungs-GmbH
Sitz/Registriergericht Hamburg; HRB 17189
Geschäftsführender Gesellschafter:
Michael O. Grau

Bureau Veritas
Certification:
ISO 9001,
TS 16949,
EN 9100



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	Marine sediment	0.038 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
	Soil	0.02 mg/kg dry weight (d.w.)
triethyl phosphate	Fresh water	0.632 mg/l
	Marine water	0.063 mg/l
	Sewage treatment plant	298.5 mg/l
	Fresh water sediment	5 mg/kg dry weight (d.w.)
	Marine sediment	0.5 mg/kg dry weight (d.w.)
	Soil	0.64 mg/kg dry weight (d.w.)
Methyl dodec-9-enoate	Fresh water	0.001 mg/l
	Marine water	0 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0.429 mg/kg dry weight (d.w.)
	Marine sediment	0.043 mg/kg dry weight (d.w.)
	Soil	0.085 mg/kg dry weight (d.w.)
benzyl acetate	Fresh water	0.018 mg/l
	Marine water	0.002 mg/l
	Fresh water sediment	0.526 mg/kg dry weight (d.w.)
	Marine sediment	0.053 mg/kg dry weight (d.w.)
	Sewage treatment plant	8.55 mg/l
	Soil	0.094 mg/kg dry weight (d.w.)
oxydipropanol	Fresh water	0.1 mg/l
	Marine water	0.01 mg/l
	Fresh water sediment	0.238 mg/kg dry weight (d.w.)
	Marine sediment	0.024 mg/kg dry weight (d.w.)
	Sewage treatment plant	1000 mg/l
	Soil	0.025 mg/kg dry weight (d.w.)
dimethyl adipate	Fresh water	0.018 mg/l
	Marine water	0.002 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0.16 mg/kg dry weight (d.w.)
	Marine sediment	0.016 mg/kg dry weight (d.w.)
	Soil	0.09 mg/kg dry weight (d.w.)



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8.2 Exposure controls

Engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain aerosol- and solvent vapours concentration below the OEL, suitable respiratory protection must be worn.

Personal protective equipment

Eye/face protection : Wear safety goggles to protect against solvent splashes.

Hand protection

Remarks : Adhere to the professional organisation rule "Use of protective gloves". Appropriate chemicals resistant glove tested in compliance with EN 374.
Recommendation for protection against components generally found in the products:

For short-term contact (i.e. splash protection):

Appropriate material:

nitrile rubber, Neoprene

Material thickness: > 0,4 mm

Breakthrough time: > 480 min

Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Preventive hand protection (skin protection cream) recommended. Wash immediately contaminated skin. Design operations thus to avoid permanent use of protective gloves.

Skin and body protection : Depending on the probability of the occurrence of dangerously explosive atmospheres, adapted protective clothing must be worn.

Respiratory protection : If the solvent concentration is above the air limit values, a breathing apparatus approved for this purpose must be worn

Use half-mask model with cartridge or air-fed.

Protective measures : Do not eat or drink during work - no smoking.
Avoid product contact with skin, eyes and clothing.
Avoid the inhalation of dust from sanding, particulates and spray mist arising from the application of this preparation.
When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respira-



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tor during the spraying process until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid (20 - 25 °C, 1,013 hPa)
Colour	:	according product name
Odour	:	characteristic
Melting point/range	:	No data available
Upper explosion limit	:	10.0 %(V)
Lower explosion limit	:	1.0 %(V)
Flash point	:	> 61 °C
Auto-ignition temperature	:	> 400 °C
Decomposition temperature	:	No data available
pH	:	5.4 (20 °C) Concentration: 100 %
Viscosity	:	
Viscosity, kinematic	:	> 21 mm ² /s
Flow time	:	> 150 s Cross section: 4 mm Method: DIN 53211
	:	> 100 s Cross section: 6 mm Method: ISO 2431
Solubility(ies)	:	
Water solubility	:	insoluble
Vapour pressure	:	ca. 100 hPa (50 °C)



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Density : ca. 0.994 g/cm³ (20 °C)

Relative vapour density : No data available

9.2 Other information

Flammability (liquids) : No data available

Miscibility with water : immiscible

Solvent separation : < 3 %(V)

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.
There are no data available on the preparation itself.

10.4 Conditions to avoid

Conditions to avoid : Stable under recommended storage and handling conditions
(See section 7).

10.5 Incompatible materials

Materials to avoid : Keep away from oxidizing agents, strongly alkaline and
strongly acid materials in order to avoid exothermic reactions.

10.6 Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as
carbon monoxide and dioxide, smoke, oxides of nitrogen.

SECTION 11: Toxicological information

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

Acute toxicity

Not classified due to lack of data.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg



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Method: Calculation method

Components:

Sulfuric acid, mono-C12-14-alkyl esters, sodium salts:

Acute oral toxicity : LD50 (Rat): 1,800 mg/kg

triethyl phosphate:

Acute oral toxicity : LD50 Oral (Rat): 1,131 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

Aspiration toxicity

Not classified due to lack of data.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

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.

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Further information

Product:

Remarks : Exposure of vapour concentration in excess of the stated OEL's may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue muscular weakness, drowsiness and in extrem cases, loss of consciousness.
Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : There are no data available on the preparation itself.

Components:

Methyl dodec-9-enoate:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.50 mg/l
Exposure time: 48 h

M-Factor (Acute aquatic toxicity) : 1

12.2 Persistence and degradability

Product:

Biodegradability : Result: Readily biodegradable.

Chemical Oxygen Demand (COD) : 1,462 mg/g

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: There are no data available on the preparation itself.

12.4 Mobility in soil

Product:

Mankiewicz Gebr. & Co. (GmbH & Co. KG) Georg-Wilhelm-Straße 189 21107 Hamburg (Wilhelmsburg) Tel.: +49 (0) 40 / 75 10 30 Fax: +49 (0) 40 / 75 10 33 75 www.mankiewicz.de	Bank Name Deutsche Bank HypoVereinsbank Postbank	Ort Hamburg Hamburg Hamburg	Kto.-Nr. 600227300 59273300 373205	BLZ 200 700 00 200 300 00 200 100 20	BIC DEUTDE33XXX HYVEDE33XXX PNBKDE33XXX	IBAN DE58 2007 0000 0600 2273 00 DE34 2003 0000 0059 2733 00 DE85 2001 0020 0000 3732 05	Sitz/Registriergericht Hamburg: HRA 42442 Persönlich haftende Gesellschafterin: Grau Gebr. Beteiligungs-GmbH Sitz/Registriergericht Hamburg: HRB 17189 Geschäftsführender Gesellschafter: Michael O. Grau	Bureau Veritas Certification: ISO 9001, TS 16949, EN 9100	
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Mobility : Remarks: There are no data available on the preparation itself.

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.

: 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.

12.6 Endocrine disrupting properties

Product:

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.

12.7 Other adverse effects

Product:

Additional ecological information : There are no data available on the preparation itself.

The product should not be allowed to enter drains or water courses.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

Contaminated packaging : Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : Not regulated as a dangerous good

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IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.2 UN proper shipping name

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.4 Packing group

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA (Cargo) : Not regulated as a dangerous good

IATA (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

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

Relevant EU provisions transposed through retained EU law

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

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

Volatile organic compounds :

Directive 2010/75/EU of 24 November 2010 on industrial

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emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 23.75 %, 329 g/l

according to Detergents Regulation EC 648/2004 : 5 % or over but less than 15 %: Aliphatic hydrocarbons
less than 5 %: Phosphates
less than 5 %: Non-ionic surfactants
5 % or over but less than 15 %: Anionic surfactants
: Perfumes
: Allergens, Perfumes, benzyl alcohol
: Preservation agents, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Regulation (EC) No. 648/2004, as amended : 5 % or over but less than 15 %: Aliphatic hydrocarbons
less than 5 %: Phosphates
less than 5 %: Non-ionic surfactants
5 % or over but less than 15 %: Anionic surfactants
: Perfumes
: Allergens, Perfumes, benzyl alcohol
: Preservation agents, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the mixture.

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed.
H304 : May be fatal if swallowed and enters airways.
H315 : Causes skin irritation.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
H400 : Very toxic to aquatic life.
H412 : Harmful to aquatic life with long lasting effects.

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
Eye Irrit. : Eye irritation
Skin Irrit. : Skin irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - 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



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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 Harmonized 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 Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; 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 - International 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 - Organization 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

Other information : The information given in this material safety data sheet does not release the user from its duty of risk assessment and control in the work place defined in other health and safety law. Adhere to the national sanitary and occupational safety regulations when using this product.

This safety datasheet complies with the requirements of regulation (EC) No 1907/2006(2020/878).

Classification of the mixture:

Skin Irrit. 2 H315
Eye Irrit. 2 H319

Classification procedure:

Calculation method
Calculation method

Department issuing safety data sheet

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific

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material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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