

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2020/878



Article No.: 13-454-XXX-7
Print date: 11.12.2023
Version: 5.1

Rockpanel Edgepaint
Revision date: 05.10.2023
Issue date: 05.10.2023

EN
Page 1 / 10

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

1.1. Product identifier

Article No. (manufacturer/supplier) 13-454-XXX-7
Trade name/designation Rockpanel Edgepaint
semi mat, various shades
MSDS group

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

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/downstream user/distributor):

Rockpanel
Konstruktieweg 2 Telephone: +31 (0)475 353 000
6046 JD - Roermond Telefax: +31 (0)475 353 439
Netherlands

Information contact:

E-mail (competent person) info@Rockpanel.nl

1.4. Emergency telephone number

Emergency telephone number +31 (0)475 353 000
Only available during office hours. 8:00 - 17.00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Skin Sens. 1 / H317 Respiratory or skin sensitisation May cause an allergic skin reaction.
Aquatic Chronic 3 / H412 Hazardous to the aquatic environment Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Warning

Hazard statements

H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing vapours.
P280 Wear protective gloves and eye/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Hazard components for labelling

Derivative of Benzotriazol
1,2-benzisothiazol-3(2H)-one
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1)
Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperdyl sebacate

Supplemental hazard information

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description Laquer on the basis of the following fillers, resins and other components

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2020/878



Article No.: 13-454-XXX-7 Rockpanel Edgepaint
Print date: 11.12.2023 Revision date: 05.10.2023
Version: 5.1 Issue date: 05.10.2023

EN
Page 2 / 10

Classification according to Regulation (EC) No 1272/2008 [CLP]

EC No. CAS No. Index No.	REACH No. Designation classification // Remark	weight-%
400-830-7 607-176-00-3	01-0000015075-76-0017 Derivative of Benzotriazol Skin Sens. 1 H317 / Aquatic Chronic 2 H411	1 - 2,5
255-437-1 41556-26-7	01-2119491304-40-0000 Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate Skin Sens. 1 H317 / Repr. 2 H361 / Aquatic Acute 1 H400 (M = 1) / Aquatic Chronic 1 H410	0,3 - 1
220-120-9 2634-33-5 613-088-00-6	1,2-benzisothiazol-3(2H)-one Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Aquatic Acute 1 H400 (M = 1)	0,0025 - 0,01
55965-84-9 613-167-00-5	01-2120764691-48 reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1) Acute Tox. 2 H330 / Acute Tox. 2 H310 / Acute Tox. 3 H301 / Skin Corr. 1C H314 / Eye Dam. 1 H318 / Skin Sens. 1A H317 / Aquatic Acute 1 H400 (M = 100) / Aquatic Chronic 1 H410 (M = 100) / EUH071	< 0,001

Additional information

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Unsuitable extinguishing media

strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Article No.: 13-454-XXX-7 Rockpanel Edgepaint
Print date: 11.12.2023 Revision date: 05.10.2023
Version: 5.1 Issue date: 05.10.2023

EN
Page 3 / 10

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Further information

Vapours are heavier than air. Vapours form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight.

Due to the content of organic solvents in the preparation:

Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values:

not applicable

DNEL:

reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1)

Index No. 613-167-00-5 / CAS No. 55965-84-9

DNEL long-term inhalative (local), Workers: 0,02 mg/m³

DNEL short-term inhalation (local), Workers: 0,04 mg/m³

DNEL long-term inhalative (local), Consumer: 0,02 mg/m³

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2020/878



Article No.: 13-454-XXX-7 Rockpanel Edgepaint
Print date: 11.12.2023 Revision date: 05.10.2023
Version: 5.1 Issue date: 05.10.2023

EN
Page 4 / 10

DNEL short-term inhalation (local), Consumer: 0,04 mg/m³
DNEL oral long-term (chronic) systemic, Consumer: 0,09 mg/kg
DNEL oral short-term (acute) systemic, Consumer: 0,11 mg/kg

Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
EC No. 255-437-1 / CAS No. 41556-26-7

DNEL long-term dermal (systemic), Workers: 1,8 mg/kg
DNEL long-term inhalative (systemic), Workers: 1,27 mg/m³
DNEL long-term dermal (systemic), Consumer: 0,9 mg/kg
DNEL long-term inhalative (systemic), Consumer: 0,31 mg/m³
DNEL long-term oral (systemic) , Consumers: 0,18 mg/kg

Derivative of Benzotriazol

Index No. 607-176-00-3 / EC No. 400-830-7

DNEL long-term dermal (systemic), Workers: 0,5 mg/kg
DNEL long-term inhalative (systemic), Workers: 0,35 mg/m³
DNEL long-term dermal (systemic), Consumer: 0,25 mg/kg
DNEL long-term inhalative (systemic), Consumer: 0,085 mg/m³
DNEL long-term oral (systemic) , Consumer: 0,025 mg/kg

PNEC:

reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1)

Index No. 613-167-00-5 / CAS No. 55965-84-9

PNEC aquatic, freshwater: 3,39 µg/L
PNEC aquatic, marine water: 3,39 µg/L
PNEC sediment, freshwater: 0,027 mg/kg
PNEC sediment, marine water: 0,027 mg/kg
PNEC, soil: 0,01 mg/kg
PNEC sewage treatment plant (STP): 0,23 mg/L

Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
EC No. 255-437-1 / CAS No. 41556-26-7

PNEC aquatic, freshwater: 2,2 µg/L
PNEC aquatic, marine water: 0,22 µg/L
PNEC aquatic, intermittent release: 0,009 mg/L
PNEC sediment, freshwater: 1,05 mg/kg
PNEC sediment, marine water: 0,11 mg/kg
PNEC, soil: 0,21 mg/kg
PNEC sewage treatment plant (STP): 1 mg/L

Derivative of Benzotriazol

Index No. 607-176-00-3 / EC No. 400-830-7

PNEC aquatic, freshwater: 2,3 µg/L
PNEC aquatic, marine water: 0,23 µg/L
PNEC aquatic, intermittent release: 0,028 mg/L
PNEC sediment, freshwater: 3,06 mg/kg
PNEC sediment, marine water: 0,306 mg/kg
PNEC, soil: 2 mg/kg
PNEC sewage treatment plant (STP): 10 mg/L

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Personal protection equipment

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used.

Hand protection

For prolonged or repeated handling the following glove material must be used:

Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2020/878



Article No.: 13-454-XXX-7 Rockpanel Edgepaint
Print date: 11.12.2023 Revision date: 05.10.2023
Version: 5.1 Issue date: 05.10.2023

EN
Page 5 / 10

Eye/face protection

Wear closely fitting protective glasses in case of splashes.

Body protection

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	refer to label
Odour:	characteristic
Initial boiling point and boiling range:	100 °C Water
Flash point:	not applicable
Auto-ignition temperature:	405 °C Derivative of Benzotriazol
pH at 20 °C:	not applicable
Cinematic viscosity (40°C):	< 700 mm²/s
Viscosity at 20 °C:	> 90 s 4 mm Method: DIN 53211
Solubility(ies):	
Water solubility at 20 °C:	partially soluble
Vapour pressure at 20 °C:	0,0015 mbar
Density and/or relative density:	
Density at 20 °C:	1,10 g/cm³

9.2. Other information

Solid content:	45,75 weight-%
Solvent separation test:	< 3 weight-% (ADR/RID)

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. Incompatible materials

not applicable

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

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

Article No.: 13-454-XXX-7 Rockpanel Edgepaint
Print date: 11.12.2023 Revision date: 05.10.2023
Version: 5.1 Issue date: 05.10.2023

EN
Page 6 / 10

Acute toxicity

1,2-benzisothiazol-3(2H)-one
oral, LD50, Rat: 490 mg/kg
dermal, LD50, Rat: > 2000 mg/kg

reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1)
oral, LD50, Rat: 64 mg/kg
dermal, LD50, Rat: 87 mg/kg
inhalative (dust and mist), LC50, Rat: 0,17 mg/L (4 h)
inhalative, LC50, Rat: 5000 mg/m³

Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
oral, LD50, Rat: 3230 mg/kg
Method: OECD 401
dermal, LD50, Rat: 3170 mg/kg
Method: OECD 402

Derivative of Benzotriazol
oral, LD50, Rat: > 5000 mg/kg
Method: OECD 401
dermal, LD50, Rat: > 2000 mg/kg
Method: OECD 402
inhalative (vapours), LC50, Rat: > 5,8 mg/L (4 h)
Method: OECD 403

Skin corrosion/irritation; Serious eye damage/eye irritation

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

Respiratory or skin sensitisation

May cause an allergic skin reaction.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

STOT-single exposure; STOT-repeated exposure

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

Aspiration hazard

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

Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP]
Do not allow to enter into surface water or drains.

12.1. Toxicity

1,2-benzisothiazol-3(2H)-one
Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 2,18 mg/L 0 - 16 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna: 2,94 mg/L (48 h)
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 0,11 mg/L (72 h)

reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1)
Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 0,22 mg/L 0 - 2,13 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna: 0,16 mg/L 0 - 13 mg/L (48 h)
Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 0,0012 mg/L (72 h)
Method: OECD 201
Bacterial toxicity:, EC10, Activated sludge: 7,92 mg/L (3 h)

Article No.: 13-454-XXX-7 Rockpanel Edgepaint
Print date: 11.12.2023 Revision date: 05.10.2023
Version: 5.1 Issue date: 05.10.2023

EN
Page 7 / 10

Method: OECD 209

Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
Fish toxicity, LC50, *Lepomis macrochirus* (Bluegill): 0,97 mg/L (96 h); Evaluation OECD 203

Fish toxicity, LC50, *Danio rerio* (zebrafish): 0,9 mg/L (96 h)

Method: OECD 203

Aquatic toxicity, EC50, *Daphnia magna* (Big water flea): 20 mg/L (24 h)

Method: OECD 202

Aquatic plants, EC50, *Desmodesmus subspicatus*: 1,68 mg/L (72 h)

Method: OECD 201

microorganisms / Effect on activated sludge, EC20, Activated sludge: > 100 mg/L (3 h)

Method: OECD 209

Derivative of Benzotriazol

Fish toxicity, LC50, *Oncorhynchus mykiss* (Rainbow trout): 2,8 mg/L (96 h); Evaluation OECD 203

Daphnia toxicity, EC50, *Daphnia magna* (Big water flea): 4 mg/L (48 h)

Aquatic plants, EC50, *Pseudokirchneriella subcapitata*: > 100 mg/L (72 h)

Aquatic plants, EC10, *Pseudokirchneriella subcapitata*: 10 mg/L (72 h); Evaluation OECD 201

microorganisms / Effect on activated sludge, EC50, Activated sludge: > 1000 mg/L (3 h)

Long-term Ecotoxicity

Harmful to aquatic life with long lasting effects.

1,2-benzisothiazol-3(2H)-one

Algae toxicity, NOEC, *Skeletonema costatum*: 0,027 mg/L (72 h)

reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1)

Fish toxicity, NOEC, *Oncorhynchus mykiss* (Rainbow trout): 0,098 mg/L (28 day(s))

Method: OECD 210

Daphnia toxicity, NOEC, *Daphnia magna* (Big water flea): 0,004 mg/L (21 day(s))

Method: OECD 211

Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Chronic (long-term) *daphnia* toxicity, NOEC, *Daphnia magna* (Big water flea): 1 mg/L (21 D); Evaluation OECD 211

Derivative of Benzotriazol

Daphnia toxicity, NOEC, *Daphnia magna* (Big water flea): 0,78 mg/L (21 day); Evaluation OECD 202

Toxicity to soil macroorganisms, LC0, *Eisenia fetida*: > 1000 mg/kg (14 day); Evaluation OECD 207

Toxicity to soil macroorganisms, NOEC, *Eisenia fetida*: 100 mg/kg (56 day); Evaluation OECD 207

Terrestrial toxicity, EC50, *Brassica rapa*: > 100 mg/L ; Evaluation OECD 208

12.2. Persistence and degradability

Derivative of Benzotriazol

Activated sludge, CO₂ formation (% of the theoretical value): 24 % (28 day(s)); Evaluation OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C

Not readily biodegradable (according to OECD criteria)

Sedimentation, radiocarbon method: 1 % (100 day(s)); Evaluation OECD 308

Method: aerobic

The product has not been tested.; The statement is derived from products of similar structure or composition.

Sedimentation, radiocarbon method: 0,2 % (100 day(s)); Evaluation OECD 308

Method: aerobic

The product has not been tested.; The statement is derived from products of similar structure or composition.

12.3. Bioaccumulative potential

reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1)

Partition coefficient: n-octanol/water: -0,71 - -0,75

Method: OECD 107

Bioconcentration factor (BCF)

Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Bioconcentration factor (BCF), *Cyprinus carpio* (Common Carp): < 9,7

Bioconcentration factor (BCF), *Cyprinus carpio* (Common Carp): < 31,4

12.4. Mobility in soil

Toxicological data are not available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2020/878



Article No.: 13-454-XXX-7
Print date: 11.12.2023
Version: 5.1

Rockpanel Edgepaint
Revision date: 05.10.2023
Issue date: 05.10.2023

EN
Page 8 / 10

12.6.

12.7. **Other adverse effects**
No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

080111* Waste paint and varnish containing organic solvents or other dangerous substances

Appropriate disposal / Package Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

No dangerous good in sense of this transport regulation.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

Land transport (ADR/RID)

not applicable

Marine pollutant

not applicable

14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

Further information

Land transport (ADR/RID)

Tunnel restriction code

-

Sea transport (IMDG)

EmS-No.

not applicable

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

EU legislation

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC-value (in g/L): 20,489

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2020/878



Article No.: 13-454-XXX-7
 Print date: 11.12.2023
 Version: 5.1

Rockpanel Edgepaint
 Revision date: 05.10.2023
 Issue date: 05.10.2023

EN
 Page 9 / 10

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

15.2. Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

EC No. CAS No.	Designation	REACH No.
255-437-1 41556-26-7	Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	01-2119491304-40-0000

SECTION 16: Other information

Full text of classification in section 3:

Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Acute Tox. 2 / H330	Acute toxicity (inhalative)	Fatal if inhaled.
Acute Tox. 2 / H310	Acute toxicity (dermal)	Fatal in contact with skin.
Acute Tox. 3 / H301	Acute toxicity (oral)	Toxic if swallowed.
Skin Corr. 1C / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
Skin Sens. 1A / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations

Further information

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2020/878



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EN
Page 10 / 10

EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

* Data changed compared with the previous version