



SAFETY DATA SHEET - ISORYX Outside Coating

according to 1907/2006/EC, Article 31

Version 3 (en), 16.07.2024

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

1.1 Product identifier

- **Product name:** ISORYX Outside Coating

1.2 Relevant identified uses and uses advised against

- **Uses advised against:** Indoor use
- **Use of substance/mixture:** Coating material

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

ISORYX GmbH

Daneckerstr. 71 D-72458 Albstadt

info@isoryx.com

1.4 Emergency telephone number

For emergencies, please contact the local or national emergency numbers in your country.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Aquatic Chronic 3 H412 Harmful to aquatic life with long-lasting effects.

Additional information:

Not skin sensitising based on results from similar tested mixtures applying read-across principles in accordance with CLP Regulation Article 9 (4),

OECD 429 LLNA (Mouse) - not skin sensitising (S4565/S5145/S5146)

2.2 Label elements

- **Labelling according to Regulation (**
- **EC) No. 1272/2008:** Product is classified and labelled according to CLP regulation
- **Hazard pictograms:** Not applicable
- **Signal word:** Not applicable

Hazard statements:

H412 Harmful to aquatic life with long-term effects.

Precautionary statements:

- P101 If medical advice is needed, have product container or label at hand
- P102 Keep out of reach of children
- P103 Read all instructions carefully and follow them
- P273 Avoid release to the environment
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations

Additional information:

EUH208 Contains 2-octyl-2H-isothiazol-3-one, mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1).
Can cause allergic reactions.

2.3 Other hazards

Results of PBT and vPvB assessment:

- **PBT:** Not applicable
- **vPvB:** Not applicable

SECTION 3: Composition/ingredient information

3.1 Substances

Not applicable

3.2 Mixtures

Description: Silicone resin emulsion paint with mineral fillers.

Hazardous ingredients:

Component	Classification	Concentration
CAS: 13463-41-7 pyrithione zinc EINECS: 236-671-3 Reg.nr.:		
01-2119511196-46	Acute Tox. 3, H301; Acute Tox. 2, H330; Repr.1B, H360D; STOT RE 1, H372; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=1000); Aquatic Chronic 1, H410 (M=10) ATE: LD50 oral: 221 mg/kg	≥0.0025- <0.025%
CAS: 886-50-0 Terbutryn (ISO) EINECS: 212-950-5	Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Acute Tox. 4, H302; Skin Sens. 1, H317	≥0.0025- <0.025%
CAS: 26530-20-1 2-Octyl-2H-isothiazol-3-one EINECS: 247-761-	Flam. Liq. 3, H226; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Skin Sens. 1A, H317, EUH071 ATE: LD50 oral: 125 mg/kg	
LD50 dermal: 311 mg/kg Specific concentration limit: Skin Sens. 1A; H317:C ≥ 0.0015 %	≥0.0025-<0.025%	
CAS: 55965-84-9 Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Skin Sens. 1A, H317, EUH071 Specific concentration limits: Skin Corr. 1C; H314:C ≥ 0.6 % Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 % Eye Dam. 1; H318: C ≥ 0.6 % Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 % Skin Sens. 1A; H317: C ≥ 0.0015 %	≥0.00025- <0.0015%

Additional information: For the wording of the listed risk phrases refer to section 16.

Section 4: First-aid measures

4.1 Description of first-aid measures

- **General information:**
 - Self-protection of the first aider
 - Remove affected person from danger area
- **After inhalation:** Supply fresh air; consult doctor if complaints arise
- **After skin contact:** If skin irritation persists, consult doctor
- **After eye contact:** Rinse opened eye for several minutes under running water
- **If swallowed:**
 - Rinse mouth and drink plenty of water

- Do not induce vomiting; seek medical attention immediately

Notes for doctor: No special treatment. Treat symptomatically. Contact poison specialist if large quantities ingested/inhaled.

4.2 Most important symptoms and effects

No further relevant information available.

4.3 Immediate medical attention needed

No further relevant information available.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable media: Use measures appropriate to local circumstances and environment.

5.2 Special hazards

No further relevant information available.

5.3 Advice for firefighters

- **Special protective equipment:** Adapt to surrounding fire
- **Additional information:**
 - Dispose of fire debris/contaminated water per regulations
 - Collect contaminated firefighting water separately

Section 6: Accidental release measures

6.1 Personal precautions

Wear protective clothing.

6.2 Environmental precautions

- Prevent entry into drains/surface water
- Inform authorities if product enters waterways
- Dilute with plenty of water
- Prevent entry into sewage system

6.3 Methods for cleaning up

- Absorb with liquid-binding material
- Dispose according to regulations

6.4 Reference to other sections

- Section 7: Safe handling
- Section 8: Personal protection

- Section 13: Disposal

Section 7: Handling and storage

7.1 Safe handling

Store cool and dry in sealed containers.

7.2 Storage conditions

- **Requirements:** No special requirements
- **Storage class:** 12
- **GISCode:** BSW50
- **Temperature:** +5 to +30 °C
- Protect from frost

7.3 Specific end use(s)

No further information available.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits:

- **13463-41-7 Pyrithione zinc:** MAK see section IIb
- **26530-20-1 2-Octyl-2H-isothiazol-3-one:** WEL long-term: 0.05 E mg/m³
- **55965-84-9 Mixture:** Long-term MAK: 0.2E mg/m³

8.2 Exposure controls

Personal protection:

- **General measures:** Use skin cream, wash hands
- **Respiratory:** Not required
- **Hands:** Protective gloves (nitrile rubber)
- **Eyes:** EN 166:2001 goggles when decanting
- **Body:** Protective work clothing

Section 9: Physical and chemical properties

9.1 Basic physical and chemical properties

- **Form:** Liquid
- **Colour:** According to product name
- **Odour:** Faint, characteristic
- **Melting/freezing point:** Not determined
- **Boiling point/range:** No data available
- **Flash point:** Not applicable
- **Viscosity:** Not determined
- **Water solubility:** Completely miscible
- **Vapour pressure at 20°C:** 24 hPa

- **Density:** Not determined
- **VOC (EU):** ≤25.0 g/l

9.2 Other information

- **Ignition properties:** Not self-igniting
- **Explosive properties:** Not explosive
- **Physical hazard classes:** Not applicable for all categories (explosive substances, flammable gases/liquids/solids, oxidising substances, etc.)

Section 10: Stability and reactivity

10.1 Reactivity

No further information available.

10.2 Chemical stability

Stable under specified conditions.

10.3 Hazardous reactions

None known.

10.4 Conditions to avoid

No further information available.

10.5 Incompatible materials

No further information available.

10.6 Hazardous decomposition products

None known.

Section 11: Toxicological information

11.1 Information on hazard classes

Acute toxicity values:

Pyrithione zinc (13463-41-7):

- Oral LD50: 221 mg/kg (ATE), 774 mg/kg (rat)
- Dermal LD50: >2,000 mg/kg (rat)
- Inhalative LC50: 1.03 mg/l (rat)

Terbutryn (ISO) (886-50-0):

- Oral LD50: ~500 mg/kg (rat)
- Dermal LD50: >2,000 mg/kg (rat)

- Inhalative LC50: >5.21 mg/l (rat)

2-Octyl-2H-isothiazol-3-one (26530-20-1):

- Oral LD50: 125 mg/kg (ATE), >500 mg/kg (rat)
- Dermal LD50: 311 mg/kg (ATE), >900 mg/kg (rat)
- Inhalative LC50: 0.27 mg/l (rat)

Section 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Zinc pyrithione:

- EC50/48h: 0.05 mg/l (daphnia)
- IC50/72h: 0.067 mg/l (*Selenastrum capricornutum*)
- LC50/96h: 0.06 mg/l (Rainbow trout)

Terbutryn (ISO):

- EC50/48h: 7.1 mg/l (daphnia)
- IC50/72h: 0.0055 mg/l (*Selenastrum capricornutum*)
- LC50/96h: 1.8 mg/l (fathead minnow)
- EC50/72h: 0.104 mg/l (*Pseudokirchneriella subcapitata*)

2-octyl-2H-isothiazol-3-one:

- EC50/48h: 0.42 mg/l (daphnia)
- IC50/72h: 0.084 mg/l (*Scenedesmus subspicatus*)
- LC50/96h: 0.03 mg/l (rainbow trout)

12.2 Persistence and degradability

No further relevant information available.

Degree of elimination:

26530-20-1 2-Octyl-2H-isothiazol-3-one

OECD 309 Simulation Biodegradation-

Surface water

0,6-1,4 d ((-)) (half life)

rapidly biodegradable; S 635

12.3 Bioaccumulative potential

13463-41-7 Pyrithione zinc

OECD 107 (shake flask method) 1,21 ((-)) (n-octanol/water)

886-50-0 terbutryn (ISO)

OECD 117 Log Kow (HPLC method) OECD 305 BCF 103 BCF 3,19 ((-)) (n-octanol/water)

((-)) ((calculated) EPIWIN)

26530-20-1 2-octyl-2H-isothiazol-3-one

OECD 117 Log Kow (HPLC method) OECD 305 BCF 2.92 ((-)) (n-octanol/water)

507-538 BCF (freshwater fish)

12.4 Mobility in soil

No further information available.

12.5 PBT and vPvB assessment

Not applicable.

12.6 Endocrine disrupting properties

Product contains no substances with endocrine disrupting properties.

12.7 Other adverse effects

Harmful to fish.

Section 13: Disposal considerations

13.1 Waste treatment methods

Recommendation:

- Observe local regulations
- Do not dispose with household waste
- Prevent entry into sewage system

European waste catalogue:

- 08 00 00: WASTES FROM

MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS, VITREOUS ENAMELS, SEALANTS AND

- PRINTING INKS
- 08 01 00: Wastes from MFSU and removal of paint and varnish
- 08 01 11*: Waste paint containing hazardous substances

Uncleaned packaging:

- Empty contaminated packagings thoroughly
- Can be recycled after cleaning
- Cleaning agent: Water with cleaning agents if necessary

Section 14: Transport information

14.1 UN number

ADR, ADN,

IMDG, [Organization:5](#): Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Marine pollutant: No

14.6 Special precautions

Not applicable

14.7 Maritime transport in bulk

Not applicable

Additional information: Not dangerous according to transport regulations

Section 15: Regulatory information

15.1 Safety, health and environmental regulations

- **Directive 2004/42/EC:**
 - Product type: PAINTS AND VARNISHES
 - Subcategory: Exterior wall paints for mineral substrates
 - Water-based coating limit: 40 g/l
- **Directive 2012/18/**
- **EU:**
 - Named substances (Annex I): None listed

- **Regulation (**
- **EC) No 1907/2006 ANNEX XVII**
 - Conditions of restriction: 3
- **Directive 2011/65/EU: No ingredients listed**
- **Regulation (**
 - **EU) 2019/1148:**
 - Annex I (Explosive precursors): None listed
 - Annex II (Reportable): None listed
 - **National regulations:**
 - Water hazard class: WGK 1 (slightly hazardous)
 - **BG-Merkblatt:**
 - M 042 'Skin protection'
 - M 050 'Handling hazardous substances'
 - M 053 'General occupational safety measures'

15.2 Chemical safety assessment

Not carried out

Section 16: Other information

This information is based on current knowledge but does not constitute a guarantee of product properties or establish a legally valid contractual relationship.

Relevant phrases:

- H226: Flammable liquid and vapour
- H301: Toxic if swallowed
- H302: Harmful if swallowed
- H310: Fatal in contact with skin
- H311: Toxic in contact with skin
- H314: Causes severe skin burns and eye damage
- H315: Causes skin irritation
- H317: May cause allergic skin reaction
- H318: Causes serious eye damage
- H319: Causes serious eye irritation
- H330: Fatal if inhaled
- H360D: May damage unborn child
- H372: Causes organ damage through prolonged/repeated exposure
- H400: Very toxic to aquatic life
- H410: Very toxic to aquatic life with long lasting effects
- EUH071: Corrosive to respiratory tract

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Abbreviations and acronyms:

RID: International transport of dangerous goods by rail

CLP: Classification, labelling and packaging

REACH: Registration, Evaluation and Authorisation of Chemicals

ADR: European Agreement on dangerous goods transport

IMDG: International Maritime Code for Dangerous Goods

GHS: Globally Harmonised System

EINECS: European Inventory of Existing Commercial Substances

ELINCS: European List of Notified Chemical Substances

VOC: Volatile Organic Compounds

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 2: Acute toxicity – Category 2

Skin Corr. 1: Skin corrosion/irritation – Category 1

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A

Repr. 1B: Reproductive toxicity – Category 1B

STOT RE 1: Specific target organ toxicity – repeated exposure – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment – acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment – long-term aquatic hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

*** Data compared to the previous version altered.**