



Safety Data Sheet

According to Regulation (EC) n. 1907/2006, as amended by the Regulation 2020/878– Annex II

Trade name: WINDFORM® RL SEAL

Current version: 3.0 issued: 17/01/2024

Replaced version: 2.0 issued: 12/05/2021

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

1.1 Product identifier

Trade name

WINDFORM® RL SEAL

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

Dipping

Uses advised against

Do not use for purposes other than those indicated.

1.3 Details of the supplier of the safety data sheet

Address

CRP TECHNOLOGY SRL
VIA CESARE DELLA CHIESA, 150/C
41126 MODENA
ITALY

Telephone: +39 059 / 821135

Fax: +39 059 / 822071

Email address of responsible/expert person for the Safety Data Sheet: info@crp.eu

1.4 Emergency telephone number

Poison Control Center - Milano Ospedale Niguarda : +39 02 66 101029

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification information

Classification according to Regulation (EC) N°1272/2008 (CLP).

| | |
|-------------------------------------|-------------------|
| Skin Corrosion / Irritation | Category 2 (H315) |
| Serious eye damage / eye irritation | Category 2 (H319) |
| Aquatic environment- chronic hazard | Category 3 (H412) |

2.2 Label elements

Labelling according to Regulation (EC) N°1272/2008 (CLP).

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Hazard pictograms



GHS07

Signal word

WARNING

Hazard statements

H319 – Causes serious eye irritation

H315 – Causes skin irritation

H412 – Harmful to aquatic life

Precautionary statements – EU (§28, 1272/2008)

P264: Wash face, hands and any exposed skin thoroughly after handling.

P273: Avoid release to the environment.

P308+313: If exposed or concerned: Get medical advice/attention.

P303+361+353: If on skin: Take off contaminated clothing and wash before reuse.

P302+352: If on skin, wash with soap and water.

P305+351+338: If in eyes, rinse cautiously with water for several minutes.

Remove contact lenses if present and easy to do. Continue rinsing.

P501: Dispose of contents/container in accordance with local/regional regulations.

Additional information

EUH 208: Contains: zinc bis(dibutyldithiocarbamate)
5-chloro-2-methyl-4-isothiazolin-3-one
2-Methyl-2H-isothiazol-3-one
1,2-Benzisothiazol-3(2H)-one
May produce an allergic reaction.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterization

Black pigmented rubber dispersion, stabilized with ammonia, prevulcanised.



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Hazardous ingredients

| Chemical name | CAS N° EC N° REACH reg. N° | Weight-% | Classification according to Regulation (EC) N° 1272/2008 [CLP] |
|---|--|--------------|--|
| Ammonium hydroxide | 1336-21-6 215-647-6 | 0.2 -<0.6% | H314 Skin Corr. 1B H400 Aquatic Acute 1 H335 STOT SE 3 |
| Zinc bis(dibutyldithiocarbamate) | 136-23-2 205-232-8 01-2119535161-51-XXXX | 0.2 -<1% | H400 Aquatic Acute 1, cat. 1 H410 Aquatic Chronic, cat. 1 H315 Skin Irritation, cat. 2 H319 Eye Irritation, cat. 2 H317 Skin Sens. 1 H335 STOT SE 3 |
| Alcohols, C16-18 and C18-unsaturated, ethoxylated | 68920-66-1 500-236-9 01-2119489407-26-xxxx | ≥ 0.5 - ≤ 1% | H315 Skin irritation-cat2 |
| Zinc oxide | 1314-13-2 215-222-5 01-2119463881-32-XXXX | 0.08-<0.2% | Aquatic Acute 1, H400; Aquatic Chronic 1, H410 |

No Hazardous ingredients

| Chemical name | CAS N° EC N° | Weight-% |
|-----------------|------------------------|----------|
| rubber, natural | 9006-04-6 232-689-0 | >40% |
| water | 7732-18-5 231-791-2 | 25-50% |

SECTION 4: First aid measures

4.1 Description of first aid measures

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

In case of persistent adverse effects, consult a physician.

After skin contact

After contact with skin, wash immediately with soap and water. Seek medical attention if symptoms occur. Wash clothing before reuse.



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After eye contact

Remove contact lenses, if present. Open eyelids widely, rinse immediately the eyes with plenty of water (15 min.). In case of persistent adverse effects, consult a physician.

After ingestion

Seek medical advice immediately. Rinse immediately the mouth.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

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

Water mist, extinguishing powder, carbon dioxide (CO₂), alcohol resistant foam.

Unsuitable extinguishing media

Strong water jet.

5.2 Special hazards arising from the substance or mixture

In the event of fire, could be released: Carbon dioxide (CO₂); Carbon monoxide (CO); NO_x.

5.3 Advice for firefighters

Helmet with protective visor, heat-resistant gloves, protective respiratory equipment with ABEK filter; fire blanket.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in Sections 7 and 8. Ensure adequate ventilation.

For emergency responders

Personal protective equipment - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.



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6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders and universal binders).
Dispose of waste product or used containers according to local regulation (see Section 13).

6.4 Reference to other sections

See as prescribed in the Sections 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Provide good ventilation of working area, avoid any contact with the skin and the eyes.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Provide eyewash fountain in work area.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep containers tightly sealed, at temperatures between 5 and 35°C and relative air moisture of 20–70%. Protect from frost.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Zinc bis (dibutyldithiocarbamate) | | CAS N° 136-23-2 ; EC N° 205-232-8 |
|-----------------------------------|-----------------------|--|
| DNEL | 2 mg/m ³ | Long-term inhalativ consumer systemic - repeated dose toxicity |
| DNEL | 6 mg/m ³ | Long-term inhalativ worker systemic - repeated dose toxicity |
| DNEL | 1 mg/kg/day | Long-term oral consumer systemic - repeated dose toxicity |
| DNEL | 480 mg/kg/day | Long-term dermal consumer systemic - repeated dose toxicity |
| DNEL | 800 mg/kg/day | Long-term dermal worker systemic - repeated dose toxicity |
| DNEL | 800 mg/kg | Long-term dermal worker systemic - repeated dose toxicity |
| Zinc oxide | | CAS N° 1314-13-2 |
| DNEL | 0.5 mg/m ³ | Long-term inhalativ worker systemic - repeated dose toxicity |



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| Zinc bis (dibutyldithiocarbamate) | | CAS N° 136-23-2 ; EC N° 205-232-8 |
|--|---|--|
| PNEC | 0.32 µg/L (freshwater) | Assessment factor: 10 |
| PNEC | 7.4 µg/L (intermittent release) | Assessment factor: 100 |
| PNEC | 3.65 µg/L (sewage treatment plant) | Assessment factor: 100 |
| PNEC | 0.032 µg/L (marine water) | Assessment factor: 100 |
| PNEC | 4.56 mg/kg (oral - food) | |
| PNEC | 32 mg/kg (sediment – fresh water) partition coefficient | |
| PNEC | 3.2 mg/kg (marine water) | |
| PNEC | 6.4 mg/kg (soil) partition coefficient | |
| Zinc oxide | | CAS N° 1314-13-2 |
| PNEC | 20.6 µg/L (freshwater) | Assessment factor: 1 |
| PNEC | 100 µg/L (sewage treatment plant) | Assessment factor: 1 |
| PNEC | 6.1 µg/L (marine water) | Assessment factor: 1 |
| PNEC | 117.8 mg/kg (sediment -freshwater) | Assessment factor: 1 |
| PNEC | 56.1 mg/kg (sediment -marine water) | Assessment factor: 1 |
| PNEC | 35.6 mg/kg (soil) | Assessment factor: 1 |

8.2 Exposure controls

Appropriate engineering controls

The usual precautionary measures should be adhered to in handling the chemicals.

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Individual protection measures, such as personal protective equipment

Eye / face protection

Use safety glasses with side shields (EN 166).

Hand protection

Use protective gloves (EN 388; EN 374). Before use, the protective gloves should be tested in any case for its specific workstation 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. Design operations thus to avoid permanent use of protective gloves. In case of thermal processing, thermally insulating protective gloves (EN407) are to be used.

Respiratory protection

Use respiratory protection mask with appropriate filter in presence of high concentrations.

Environmental exposure controls

See Section 6.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|---------|
| Physical State | |
| Liquid | |
| Colour | |
| Black | |
| Odour | |
| Ammonia | |
| Melting point / Freezing point | |
| 0°C | |
| Melting point / melting range | |
| Not applicable | |
| Boiling point or initial boiling point and boiling range | |
| 100°C | |
| Flammability | |
| No data available | |
| Lower explosion limits | |
| No data available | |
| Upper explosion limits | |
| No data available | |
| Flash point | |
| No data available | |
| Minimum ignition energy | |
| Value | 5-20 mJ |
| Auto-ignition temperature | |
| No data available | |
| Decomposition temperature | |
| No data available | |
| pH | |



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| | |
|---|------------|
| 9-11 | |
| | |
| Kinematic viscosity | |
| No data available | |
| | |
| Solubility | |
| Slightly soluble | |
| | |
| Partition coefficient n-octanol/water (log value) | |
| No data available | |
| | |
| Vapour pressure | |
| 24 mmHg/25°C | |
| | |
| Density and/or Relative density | |
| Relative Density | 0,98 g/cm³ |
| | |
| Relative vapour density | |
| Not applicable | |
| | |

9.2 Other information

Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No further relevant information available if used under recommended storage conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known if used under recommended storage conditions.

10.4 Conditions to avoid

Stable under recommended storage conditions.

10.5 Incompatible materials

Oxidizing materials, strong acids and strong bases.

10.6 Hazardous decomposition products

Carbon dioxide, carbon monoxide and other toxic fumes can be released at high temperatures or upon burning.



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SECTION 11: Toxicological information

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

| | | |
|---|---------|--|
| Acute oral toxicity | | |
| Based on available data, the classification criteria are not met. | | |
| LD50 values that are relevant for classification: | | |
| Zinc bis(dibutylthiocarbamate) | | 136-23-2 |
| Oral | LD50 | >5000 mg/kg (rat) |
| Zinc oxide | | 1314-13-2 |
| Oral | LD50 | 7950 mg/kg (mouse) IUCLID > 5000 mg/kg (rat) IUCLID |
| Acute dermal toxicity | | |
| Based on available data, the classification criteria are not met. | | |
| LD50 values that are relevant for classification: | | |
| Zinc bis(dibutylthiocarbamate) | | 136-23-2 |
| Dermal | LD50 | >2000 mg/kg (rabbit) (OECD 402) |
| Acute inhalational toxicity | | |
| Based on available data, the classification criteria are not met. | | |
| Zinc oxide | | 1314-13-2 |
| Inhalative | LC50/4h | 0.4 mg/L (rat) IUCLID |
| Skin corrosion/irritation | | |
| No data available | | |
| Serious eye damage/irritation | | |
| No data available | | |
| Respiratory or skin sensitisation | | |
| Sensitizing effect is possible by prolonged exposure. | | |
| May cause allergic sensitization of the skin. | | |
| Germ cell mutagenicity | | |
| No data available | | |
| Cancerogenicity | | |
| No data available | | |
| Reproduction toxicity | | |
| No data available | | |
| STOT- single exposure | | |
| No data available | | |



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| |
|---|
| |
| STOT- repeated exposure |
| No data available |
| |
| Aspiration hazard |
| No data available |
| |
| Information on likely routes of exposure |
| Ingestion (swallowing) - Unknown effects Inhalation - Unknown effects Skin/Eye exposure - Causes serious eye irritation. On skin, sensitizing effect is possible by prolonged exposure. May cause allergic sensitization of the skin. |
| |
| Symptoms related to the physical, chemical and toxicological characteristics |
| Eye contact may cause serious eye irritation. Skin contact may cause serious skin irritation. |
| |
| Delayed and immediate effects as well as chronic effects from short and long-term exposure |
| No data available |
| |
| Interactive effects |
| No data available |
| |
| Absence of specific data |
| No specific data available |

11.2 Information on other hazards

Endocrine disrupting properties

No data available

Other information

No data available

SECTION 12: Ecological information

12.1 Toxicity

| |
|------------------------------------|
| Toxicity to fish (acute) |
| No data available |
| |
| Toxicity to fish (chronic) |
| No data available |
| |
| Toxicity to Daphnia (acute) |



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| |
|--|
| No data available |
| |
| Toxicity to Daphnia (chronic) |
| No data available |
| |
| Toxicity to algae (acute) |
| No data available |
| |
| Toxicity to algae (chronic) |
| No data available |
| |
| Bacteria/soil microorganisms toxicity |
| No data available |
| |
| Toxicity to soil macroorganisms |
| No data available |
| |
| Toxicity to birds |
| No data available |
| |
| Toxicity to bees |
| No data available |
| |
| Toxicity to plants |
| No data available |

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Disposal or recover according to the existing national or local regulations. Remove labels from packages/containers only after thorough washing. Do not discharge product into the environment.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal.

SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing Group

Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

Transport IMDG

The product is not subject to IMDG regulations.

Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for users

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.



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SECTION 15: Regulatory information

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

| |
|--|
| Regulation (EC) N° 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation) |
| According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006. |
| REACH candidate list of substances of very high concern (SVHC) for authorisation |
| According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in article 57 and article 59 of REACH (EC) 1907/2006. |
| Regulation (EC) N° 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES |
| According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances subjected to the provisions of Annex XVII (restriction entries) of the REACH regulation (EC) 1907/2006. |

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information

The information on this Safety Data Sheet (SDS) is based on the present state of our knowledge and experience. The safety data sheet describes products with a view to the security requirements. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship. As the specific conditions of use of the product does not fall under the knowledge and control of the supplier, the user will be solely responsible for other than uses for which the product was produced.

Sections modified from the previous version: 9.1, 11.1, 11.2, 12.1, 12.6, 12.7

End of safety data sheet