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RDI-METAL UNICOAT GREEN		RDI/MUG/1415



Xi : Irritant

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

1.1. Product identifier

Trade name : RDI-METAL UNICOAT GREEN
 Type of product : Paint.

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

Use : Industrial.
 Sector of use category : SU22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
 Article Category : Not applicable.
 Chemical product category : PC9a: Coatings and paints, thinners, paint removers
 Process category : PROC10: Roller application or brushing
 PROC11: Non industrial spraying
 Environmental release category : ERC8a: Indoor use of processing aids by the public at large or professional use. Use (usually) results in direct release into the environment/sewage system, for example, detergents in fabric washing, machine wash liquids and lavatory cleaners, automotive and bicycle care products (polishes, lubricants, de-icers), solvents in paints and adhesives or fragrances and aerosol propellants in air fresheners.
 ERC8d: Outdoor use of processing aids by the public at large or professional use. Use (usually) results in direct release into the environment, for example, automotive and bicycle care products (polishes, lubricants, de-icers, detergents), solvents in paints and adhesives.

1.3. Details of the supplier of the safety data sheet

Company identification : INDUCOAT
 3824 CG AMERSFOORT Nederland
 Tél : 00 31 33 456 23 94

1.4. Emergency telephone number

Phone nr : +31 30-2748888

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Dangerous product (Directive 1999/45/EC). Substances presenting a health or environmental hazard within the meaning of Directive 67/548/EEC :

Classification : R43

2.2. Label elements

Symbol(s)



R Phrase(s) : Xi : Irritant
 : R43 : May cause sensitization by skin contact.
 S Phrase(s) : S23 : Do not breathe spray.
 : S37 : Wear suitable gloves.
 : S51 : Use only in well-ventilated areas.

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SECTION 2 Hazards identification (continued)

Contains : carbamate de 3-iodo-2-propynylbutyle - octhilnone (ISO), 2-octyl-2H-isothiazol-3-one : May produce an allergic reaction.

2.3. Other hazards

None.

SECTION 3 Composition/information on ingredients

3.1./3.2. Substance / Preparation

- **Substance / Preparation** : Preparation
- **Components** : This mixture (7779-90-0) contains 90% zinc phosphate and 10% of non-hazardous additive. This mixture is not subject to classification and labelling. However, it contains zinc phosphate which is classified as dangerous for the environment (CLP 1272/2008/EC, Annex VI).

Dangerous product (Directive 1999/45/EC). Substances presenting a health or environmental hazard within the meaning of Directive 67/548/EEC.

• Hazardous components

Substance name	Contents	CAS No	EC No	Index No	Reach number	Classification
Pyrrithione de zinc	< 0.1 %	13463-41-7	----	----	----	Xn; R22 ----- Undefined. (GHS)
Zinc oxide	< 0.1 %	1314-13-2	215-222-5	030-013-00-7	----	N; R50-53 ----- Aquatic Acute 1;H400 Aquatic Chronic 1;H410
ammonia%	< 0.15 %	1336-21-6	215-647-6	007-001-01-2	----	C; R34 N; R50 ----- Skin Corr. 1B;H314 Aquatic Acute 1;H400
octhilnone (ISO), 2-octyl-2H-isothiazol-3-one	< 0.1 %	26530-20-1	247-761-7	613-112-00-5	----	T; R23/24 Xn; R22 C; R34 R43 N; R50-53 ----- Acute Tox. 3 (Dermal);H311 Acute Tox. 3 (Inhalation);H331 Skin Corr. 1B;H314 Acute Tox. 4 (Oral);H302 Skin Sens. 1;H317 Aquatic Acute 1;H400 Aquatic Chronic 1;H410
carbamate de 3-iodo-2-propynylbutyle	0.05 to 0.2 %	55406-53-6	259-627-5	----	----	Xn; R20/22 Xi; R37-41 R43 N; R50 ----- Eye Dam. 1;H318 Acute Tox. 4 (Inhalation);H332 Acute Tox. 4 (Oral);H302 STOT SE3;H335 Skin Sens. 1;H317 Aquatic Acute 1;H400
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, > 2% aromatics	< 2 %	64742-48-9	919-857-5	649-327-00-6	01-2119463258-33	R10 Xn; R65 R66 R67 ----- Asp. Tox. 1;H304 Flam. Liq. 3;H226 STOT SE3; H336 EUH066
Silver	< 0.015 %	7440-22-4	----	----	----	Not classified. (DSD/DPD) ----- Undefined. (GHS)
trizinc bis(orthophosphate)	< 8 %	7779-90-0	231-944-3	030-011-00-6	----	N; R50-53 ----- Aquatic Acute 1;H400 Aquatic Chronic 1;H410

See full text of phrases R / H under chapter 16.

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SECTION 4. First aid measures

4.1. Description of first aid measures

- Primary route of exposure : Skin contact.
- Inhalation : Remove victim to fresh air.
Obtain medical attention if breathing difficulty persists.
- Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by water rinse.
Seek medical attention if ill effect or irritation develops.
- Eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- Ingestion : Rinse mouth. Spit. Seek medical advice (show the label where possible).

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

- Inhalation : None.
- Skin contact : Repeated or prolonged skin contact may cause irritation.
- Eye contact : Contact with the eyes is likely to be irritating.
- General information : In all case : Obtain medical attention.

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

- Emergency medical treatment : Not required.

SECTION 5. Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Dry chemical. Carbon dioxide. Foam.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Specific hazards : Thermal decomposition generates : Carbon monoxide. Carbon dioxide. Nitrogen oxides. Toxic gases.

5.3. Advice for firefighters

- Flammable class : Not flammable.
- Protection against fire : Use water spray or fog for cooling exposed containers. Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures : Avoid (reject) fire-fighting water to enter environment.
Exercise caution when fighting any chemical fire.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- Personal precautions : Equip cleanup crew with proper protection.
Contact with walking surface may result in formation of slippery film/falling hazard.

6.2. Environmental precautions

- Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Clean up methods : Clean up any spills as soon as possible, using an absorbent material to collect it. Dilute residues and flush.

6.4. Reference to other sections

- See Heading 8.

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SECTION 6. Accidental release measures (continued)

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Handling : Handle in accordance with good industrial hygiene and safety procedures.
Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations.
Store closed containers with closure in upper position.
Protect from freezing.
Storage temperature - maximum 25°C; minimum 5°C.

7.3. Specific end use(s)

See Heading 1.2.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

DNEL Derived no effect level (Workers) : trizinc bis(orthophosphate) : Inhalation-long term (local) [mg/m³] : 1 (Soluble.)
trizinc bis(orthophosphate) : Inhalation-long term (local) [mg/m³] : 5 (Insoluble.)

Occupational Exposure Limits

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, > 2% aromatics : BE-LTEL Long Term Exposure Limit [mg/m³] : 533
: BE-LTEL Long Term Exposure Limit [ppm] : 100

8.2. Exposure controls

Personal protection

- Respiratory protection : Not required.
- Hand protection : Gloves.
- Skin protection : Wear suitable protective clothing.
Avoid contact with skin and eyes.
- Eye protection : Chemical goggles or safety glasses.
- Ingestion : When using, do not eat, drink or smoke.
- Others : Avoid release to the environment
Prevent entry to sewers and public waters.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

- On product

- Appearance
- Physical state at 20 °C : Liquid.
- Odour : Acrylic.
- pH : 7.5 - 8.5

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SECTION 9. Physical and chemical properties (continued)

- Flash point [°C] : Not applicable.
- Density : 1.30 +/- 0.05
- Solubility in water : Complete.
- Viscosity : 100 - 125 Poises

- On components

- Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, > 2% aromatics : • Initial boiling point - boiling range [°C] : 130 - 210
- : • Flash point [°C] : > 36°C
- : • Relative density : 0.741 - 0.851 (15°C)

9.2. Other information

- VOC (g/l) : This product contains max 60 g/l VOC
- VOC family : EU limit value for this product (cat. A/i): 140 g/l (2007) / 140 g/l (2010).

SECTION 10. Stability and reactivity

10.1. Reactivity

None under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

- Hazardous reactions : None under normal conditions.
- Hazardous properties : None under normal conditions.

10.4. Conditions to avoid

- Conditions to avoid : Store away from freezing (avoid freezing during storage).

10.5. Incompatible materials

- Materials to avoid : None under normal conditions.

10.6. Hazardous decomposition products

- Hazardous decomposition products : None under normal conditions.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

• On product

There are no data available on the mixture itself.
 carbamate de 3-iodo-2-propynylbutyle - octhilinone (ISO), 2-octyl-2H-isothiazol-3-one : May produce an allergic reaction.

- Acute toxicity : There are no data available on the mixture itself.
- Inhalation : Based on available data, the classification criteria are not met.
- Skin corrosion/irritation
- Dermal : May cause sensitization by skin contact.
- Serious eye damage/irritation : Contact with the eyes is likely to be irritating.
- Respiratory or skin sensitisation : Based on available data, the classification criteria are not met.
 May cause sensitization by skin contact.

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SECTION 11. Toxicological information (continued)

- **Germ cell mutagenicity** : Based on available data, the classification criteria are not met.
- **Carcinogenicity** : Based on available data, the classification criteria are not met.
- **Reproductive toxicity** : Based on available data, the classification criteria are not met.
- **STOT-single exposure** : Based on available data, the classification criteria are not met.
- **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.

• On components

- Zinc oxide** : Rat oral LD50 [mg/kg] : 5000
- Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, > 2% aromatics** : Rat inhalation LC50 : > 4951 mg/m³
- : Rabbit dermal LD50 : > 5000 mg/kg
- : Rat oral LD50 : > 5000 mg/kg
- trizinc bis(orthophosphate)** : Rat inhalation LC50 [mg/l/4h] : > 5.7
- : Rat oral LD50 [mg/kg] : > 5000

SECTION 12. Ecological information

- On product** : There are no data available on the mixture itself.

12.1. Toxicity

- Ecological effects information** : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Avoid release to the environment.

LC50-96 Hour - fish [mg/l] : No data available.

48 Hour-EC50 - Daphnia magna [mg/l] : No data available.

IC50 72h Algae [mg/l] : No data available.

On components

Pyrrhione de zinc : 48 Hour-EC50 - Daphnia magna [mg/l] : 0.05

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, > 2% aromatics : 48 H-LE0 - Daphnia magna [mg/l] : 1000

: 72 H-NOEL-R - Pseudokirchneriella subcapitata [mg/l] : 100

: 72 H-LE50 - Pseudokirchneriella subcapitata [mg/l] : > 1000

: 72 H-LL50 - Oncorhynchus mykiss [mg/l] : > 1000

trizinc bis(orthophosphate) : IC50 72h Algae [mg/l] : 1 - 100 (selenastrum capricornutum), NOEC (48h) > 1

: LC50-96 Hour - fish [mg/l] : 1 - 100 (oncorhynchus mykiss), NOEC(96h) = 1

12.2. Persistence and degradability

- Information on elimination** : Prevent entry to sewers and public waters.

BOD5-value [mg/l] : No data available.

COD-value [mg/l] : No data available.

On components

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, > 2% aromatics : Biodegradation [%] : 80 % / 28 days-jours-dagen-Tage

12.3. Bioaccumulative potential

- There are no data available on the mixture itself.

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SECTION 12. Ecological information (continued)

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The product does not meet the PBT and vPvB classification criteria (REACH Annex XIII).
The product does not contain substance PBT or vPvB

12.6. Other adverse effects

Not known.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Disposal : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Dispose of this material and its container at hazardous or special waste collection point. Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.

SECTION 14. Transport information

General information : Not regulated.
In accordance with ADR.

Emergency action in case of accident : Stop the engine. No naked lights. No smoking. Mark roads and warns other road users.

SECTION 15. Regulatory information

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

This mixture (7779-90-0) contains 90% zinc phosphate and 10% of non-hazardous additive. This mixture is not subject to classification and labelling. However, it contains zinc phosphate which is classified as dangerous for the environment (CLP 1272/2008/EC, Annex VI).

Ensure all national/local regulations are observed.

15.2. Chemical safety assessment

No data available.

SECTION 16. Other information

List of relevant R phrases (§ 3) : R10 : Flammable.
R20/22 : Harmful by inhalation and if swallowed.
R22 : Harmful if swallowed.
R23/24 : Toxic by inhalation and in contact with skin.
R34 : Causes burns.
R37 : Irritating to respiratory system.
R41 : Risk of serious damage to eyes.
R43 : May cause sensitization by skin contact.
R50 : Very toxic to aquatic organisms.
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 : Harmful : may cause lung damage if swallowed.
R66 : Repeated exposure may cause skin dryness or cracking.
R67 : Vapours may cause drowsiness and dizziness.

List of relevant H phrases (Section 3) : EUH066 - Repeated exposure may cause skin dryness or cracking
H226 - Flammable liquid and vapour
H302 - Harmful if swallowed
H304 - May be fatal if swallowed and enters airways

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SECTION 16. Other information (continued)

- H311 - Toxic in contact with skin
- H314 - Causes severe skin burns and eye damage
- H317 - May cause an allergic skin reaction
- H318 - Causes serious eye damage
- H331 - Toxic if inhaled
- H332 - Harmful if inhaled
- H335 - May cause respiratory irritation
- H336 - May cause drowsiness or dizziness
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects

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