



SAFETY DATA SHEET

Sultraspot Metal (N)

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

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

1.1. Product identifier

Product name	Sultraspot Metal (N)
Product number	7874/21836
UFI	UFI: W0TP-N0H9-J00R-MQ04

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

Identified uses	Spotting Agent
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1.3. Details of the supplier of the safety data sheet

Supplier	Christeyns NV Afrikalaan 182 9000 Gent Belgium Tel: +32 9 223 38 71 info@christeyns.be
Manufacturer	Cole & Wilson Ltd Rutland Street Bradford West Yorkshire BD4 7EA T:01274 393286 F: 01274 309143 info@colewilson.co.uk

1.4. Emergency telephone number

National emergency telephone number	NCEC Tel: +44 1235 239670 (UK and Europe) (DE) Giftnotruf Berlin +49 30 19240 (24h erreichbar) (DE) Giftnotruf Berlin +49 (0)30 30686 790 (CH) STIZ, tel. 145 (CH) Centre suisse d'information toxicologique: +41.(0)1.251.51.51 (AT) Vergiftungsinformationszentrale: +43 1 40 400 2222 worldwide: http://www.who.int/ipcs/poisons/centre/directory/en (FR) CENTRE ANTI-POISON France: +33 45 42 59 59 ORFILA (INRS) (FR) CENTRE ANTI-POISON Nancy: +33 (03) 83 26 36 36 (FI) Myrkytystietokeskus +358 9 471 977 (BE) Belgisch Antigifcentrum/Centre Antipoisons Belge : +32 70 245 245 (ES) Teléfono Instituto Nacional de Toxicología: 915 620 420 (GB) NHS 111 (IT) Centro Antiveleni, Ospedale Niguarda Milano: +39 02 6610 1029 (CZ) Toxikologické informační středisko, Klinika pracovního lékařství VFN a 1. LF UK, Na Bojišti 1, 120 00 Praha 2: +420 224 919 293, +420 224 915 402 (SK) Národné toxikologické informačné centrum, Univerzitná nemocnica Bratislava, pracovisko Kramáre, Klinika pracovného lekárstva a toxikológie, Limbová 5, 833 05 Bratislava : +421 2 54 77 41 66 National Poisons Information Centre Tel: +353 (01) 809 2566 (Ireland) - Healthcare Professionals only (24 hour service) +45 8988 2286 (Denmark) +358 9 7479 0199 (Finland) +47 2103 4452 (Norway) +46 8 566 42573 +46 112 Begär Giftinformation (Sweden)
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards	Not Classified
Health hazards	Skin Irrit. 2 - H315 Eye Dam. 1 - H318
Environmental hazards	Not Classified

2.2. Label elements

Hazard pictograms



Signal word	Danger
Hazard statements	H315 Causes skin irritation. H318 Causes serious eye damage.
Precautionary statements	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/ doctor. P332+P313 If skin irritation occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse.
Contains	Oxalic Acid
Supplementary precautionary statements	P264 Wash contaminated skin thoroughly after handling. P321 Specific treatment (see medical advice on this label).

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Oxalic Acid	5-10%
CAS number: 6153-56-6	EC number: 205-634-3
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H312 Eye Dam. 1 - H318	
fluorosilicic acid ... %	3-5%
CAS number: 16961-83-4	EC number: 241-034-8
Classification Skin Corr. 1B - H314	

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

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General information	Get medical attention if symptoms are severe or persist. Remove affected person from source of contamination.
Inhalation	Unlikely route of exposure as the product does not contain volatile substances. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Give milk instead of water if readily available. Get medical attention immediately.
Skin contact	Wash skin thoroughly with soap and water. Remove contaminated clothing. Get medical attention promptly if symptoms occur after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Spray/mists may cause respiratory tract irritation. This is unlikely to occur but symptoms similar to those of ingestion may develop.
Ingestion	May cause discomfort if swallowed.
Skin contact	Causes skin irritation. Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.
Eye contact	Severe irritation, burning and tearing.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
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5.2. Special hazards arising from the substance or mixture

Specific hazards	No unusual fire or explosion hazards noted.
Hazardous combustion products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Oxides of the following substances: Carbon. Fluorine. Nitrogen.

5.3. Advice for firefighters

Protective actions during firefighting	If risk of water pollution occurs, notify appropriate authorities. Control run-off water by containing and keeping it out of sewers and watercourses.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.
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6.2. Environmental precautions

Environmental precautions	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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6.3. Methods and material for containment and cleaning up

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Methods for cleaning up

Absorb in vermiculite, dry sand or earth and place into containers. Flush spilled material into suitable retaining areas or container with large quantities of water. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.

6.4. Reference to other sections

Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid contact with skin and eyes.

Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Keep above the chemical's freezing point to avoid rupturing the container. Keep container tightly closed.

Storage class

Chemical storage.

7.3. Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Oxalic Acid

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³

Short-term exposure limit (15-minute): WEL 2 mg/m³

fluorosilicic acid ... %

Short-term exposure limit (15-minute): 2.5 mg/m³

WEL = Workplace Exposure Limit.

Oxalic Acid (CAS: 6153-56-6)

DNEL

Workers - Inhalation; Long term systemic effects: 4.03 mg/m³
 Workers - Dermal; Long term systemic effects: 2.29 mg/kg bw/day
 Workers - Dermal; Short term local effects: 0.69 mg/cm²
 Consumer - Dermal; Long term systemic effects: 1.14 mg/kg bw/day
 Consumer - Dermal; Long term systemic effects: 0.35 mg/cm²
 Consumer - Oral; Short term local effects: 1.14 mg/kg bw/day

PNEC

Fresh water; 0.1622 mg/l
 marine water; 0.01622 mg/l
 Intermittent release; 1.622 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

No specific ventilation requirements.

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Eye/face protection	Safety glasses with side-shields (EN 166).
Hand protection	Chemical resistant PVC/Nitrilrubber gloves (to European standard EN 374 or equivalent). Thickness: 0,4 mm. Penetration time: >480 min (level 6). The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
Other skin and body protection	Wear suitable protective clothing (EN14605)
Hygiene measures	Do not eat, drink or smoke when using this product.
Respiratory protection	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Yellowish.
Odour	Characteristic.
pH	pH (concentrated solution): <3
Flash point	Not applicable.
Relative density	1.01-1.07 @ 20°C

9.2. Other information

Other information	Not determined.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No potentially hazardous reactions known.
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10.4. Conditions to avoid

Conditions to avoid	Avoid contact with the following materials: Oxidising agents. Reducing agents.
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10.5. Incompatible materials

Materials to avoid	Strong oxidising agents. Strong reducing agents.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Oxides of the following substances: Carbon. Silicon. Fluorine.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects	Not regarded as a health hazard under current legislation.
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Acute toxicity - oral

Notes (oral LD ₅₀)	Based on available data the classification criteria are not met.
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ATE oral (mg/kg)	7,520.0
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Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 22,000.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

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

IARC carcinogenicity

None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation

Spray/mists may cause respiratory tract irritation. This is unlikely to occur but symptoms similar to those of ingestion may develop.

Ingestion

Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

Skin contact

Irritating to skin.

Eye contact

Risk of serious damage to eyes. Symptoms following overexposure may include the following: Redness. Pain.

Acute and chronic health hazards

This product may cause skin and eye irritation. Repeated exposure may cause chronic eye irritation. Mild dermatitis, allergic skin rash.

Route of exposure

Skin and/or eye contact
Ingestion

Toxicological information on ingredients.

Oxalic Acid

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Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 376.0

Species Rat

ATE oral (mg/kg) 376.0

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

Inhalation

Gas or vapour is harmful on prolonged exposure or in high concentrations.

Ingestion

Swallowing concentrated chemical may cause severe internal injury.

Skin contact

Harmful in contact with skin. Irritating to skin.

Eye contact

This product is strongly corrosive. Causes severe skin burns and eye damage. Immediate first aid is imperative.

Acute and chronic health hazards

Gas or vapour is harmful on prolonged exposure or in high concentrations. This chemical can be hazardous when inhaled and/or touched. This product is corrosive. This product may cause skin and eye irritation. Prolonged contact may cause burns. Symptoms following overexposure may include the following: Irritation of eyes and mucous membranes. May cause damage to the kidneys. Repeated exposure may cause chronic eye irritation. May cause chemical eye burns. Acute eczematous dermatitis, contact type erythema, oedema, papules, vesicles, bullae, crusts, desquamation. Swallowing concentrated chemical may cause severe internal injury. Unconsciousness. Death.

Route of exposure

Inhalation Ingestion. Skin and/or eye contact

Target organs

Blood Central nervous system Eyes Gastro-intestinal tract Kidneys Respiratory system, lungs Skin Bladder

Medical symptoms

Severe irritation, burning and tearing. Rhinitis (inflammation of the nasal mucous membranes). Upper respiratory irritation. General respiratory distress, unproductive cough. Severe skin irritation. Nausea, vomiting. Irritability, hyperactivity, convulsions. Behavioural changes.

Medical considerations

Chronic respiratory and obstructive airway diseases. Skin disorders and allergies.

SECTION 12: Ecological information

Ecotoxicity

Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

Ecological information on ingredients.

Oxalic Acid

Ecotoxicity

Environmental information currently available for the ingredients of this preparation indicates that it does not contain any ingredients currently classified as Dangerous for the Environment.

12.1. Toxicity

Toxicity

Not considered toxic to fish.

Ecological information on ingredients.

Oxalic Acid

Toxicity

May be dangerous to fish at high concentrations due to this being an unnatural aquatic environment, but not classified as being Toxic or Very Toxic to aquatic organisms.

Acute aquatic toxicity

Acute toxicity - fish

LC₅₀, 96 hours: 160 mg/l, Freshwater fish

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Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 162.2 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 8 hours: 80 mg/l, Algae

fluorosilicic acid ... %

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 5.9-7.5 mg/l, Fish

12.2. Persistence and degradability

Persistence and degradability The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in The Detergents Regulations (as amended).

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Ecological information on ingredients.

Oxalic Acid

Bioaccumulative potential log Kow: -1.7,

12.4. Mobility in soil

Mobility Soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of in accordance with Local Authority regulations as special waste according to The Control of Special Waste Regulations 1996.

EURAL Code

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

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14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

National regulations Health and Safety at Work etc. Act 1974 (as amended).
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
EH40/2005 Workplace exposure limits.

Drug Precursors Regulation (273/2004)

Danish product registration number

Danish national regulations

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

US - TSCA

Some of the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

Some of the ingredients are listed or exempt.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
IATA: International Air Transport Association.
ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
CAS: Chemical Abstracts Service.
ATE: Acute Toxicity Estimate.
LC50: Lethal Concentration to 50 % of a test population.
LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).
EC₅₀: 50% of maximal Effective Concentration.
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: Very Persistent and Very Bioaccumulative.

Revision comments Revision is due to general MSDS review

Revision date 07/02/2024

Revision 15

Supersedes date 24/07/2023

SDS number 7874/21836

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Hazard statements in full

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.