

Elmax Base 1

Elite Surface Technologies Pty Limited

Version No: 1.12 Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 3

Issue Date: 1/01/2021 Print Date: 1/01/2021 S.GHS.AUS.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

| Product name | Elmax Base 1 |
|-------------------------------|---------------------------------------|
| Synonyms | Electroless Nickel Concentrate Part A |
| Other means of identification | Green Liquid |

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

| Relevant identified uses | Specialty chemical used in industry for surface finishing as per Technical Data Sheet. |
|--------------------------|--|
|--------------------------|--|

Details of the supplier of the safety data sheet

| Prod | luct | Sup | plied | Ιby |
|------|------|-----|-------|-----|
| | | | | |

| Registered company name | Elite Surface Technologies Pty Limited | Caswell Australia Pty Ltd |
|-------------------------|---|---|
| Address | 305 Frankston Dandenong Rd Dandenong South VIC 3175 Australia | 1 / 51 ELM PARK DRIVE, HOPPERS CROSSING, VIC 3029 AUSTRALIA |
| Telephone | +61 3 9768 3860 | 03 9741 7103 |
| Fax | +61 3 9768 2896 | N A |
| Website | https://elitesurfacetechnologies.com.au/ | caswellplating.com.au |
| Email | elite@elitesurtech.com.au | sales@caswellplating.com.au |

Emergency telephone number

| Association / Organisation | Not Available | Caswell Australia Pty Ltd |
|-----------------------------------|-----------------|---------------------------|
| Emergency telephone numbers | +61 418 474 492 | 03 9741 7103 |
| Other emergency telephone numbers | +61 419 301 019 | 0427 70 80 90 |

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

CHEMWATCH HAZARD RATINGS

| | Min | Max | ! ! |
|--------------|-----|-----|-------------------------|
| Flammability | 0 | | ! |
| Toxicity | 2 | | 0 = Minimum |
| Body Contact | 2 | | 1 = Low 2 = Moderate |
| Reactivity | 0 | | 3 = High |
| Chronic | 3 | | 4 = Extreme |

| Poisons Schedule | Not Applicable |
|--------------------|---|
| Classification [1] | Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Respiratory Sensitizer Category 1, Skin Sensitizer Category 1, Germ cell mutagenicity Category 2, Carcinogenicity Category 1A, Specific target organ toxicity - repeated exposure Category 1, Acute Aquatic Hazard Category 1, Chronic Aquatic Hazard Category 1, Reproductive Toxicity Category 1B |
| Legend: | 1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI |

Label elements

Hazard pictogram(s)







SIGNAL WORD

DANGER

Version No: 1.1

Elmax Base 1

Issue Date: 1/1/2021 Print Date: 1/1/2021

Hazard statement(s)

| H302 | Harmful if swallowed. |
|-------|--|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H317 | May cause an allergic skin reaction. |
| H341 | Suspected of causing genetic defects. |
| H350 | May cause cancer. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H360D | May damage the unborn child. |

Precautionary statement(s) Prevention

| P201 | Obtain special instructions before use. |
|------|--|
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P281 | Use personal protective equipment as required. |

Precautionary statement(s) Response

| P304+P340 | 340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. | |
|-----------|--|--|
| P308+P313 | IF exposed or concerned: Get medical advice/attention. | |
| P342+P311 | If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. | |
| P362 | Take off contaminated clothing and wash before reuse. | |

Precautionary statement(s) Storage

P405 Store locked up.

Precautionary statement(s) Disposal

P501

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

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name |
|-----------|-----------|--------------------|
| 7786-81-4 | 30-35 | nickel(II) sulfate |

SECTION 4 FIRST AID MEASURES

Description of first aid measures

| Description of first aid measu | ures |
|--------------------------------|--|
| Eye Contact | If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |
| Skin Contact | If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. |
| Inhalation | If furnes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay. |
| Ingestion | If SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Centre or a doctor. Urgent hospital treatment is likely to be needed. In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist. If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS. |

Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed

Elmax Base 1

Issue Date: 1/1/2021 Print Date: 1/1/2021

otherwise:

► INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

NOTE: Wear a protective glove when inducing vomiting by mechanical means.

Indication of any immediate medical attention and special treatment needed

- In cases of nickel poisoning, dimercaptol delivered by deep intramuscular injection may be a suitable antidote. (Patients should not exhibit renal or hepatic dysfunction.) The use of diethyldithiocarbamate is the subject of ongoing research.
- Firnitant contact dermatoses or eczemas may respond to applications of weak antiseptic packs, antibiotic ointments (tetracycline or erythromycin) or inert pastes and ointments. Systemic antibiotics are advisable in the presence of lymphangitis or lymphadenitis.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

| Fire | Incompatibility |
|------|-----------------|
| FIIE | псотранынц |

None known.

| Advice for firefighters | |
|-------------------------|---|
| Fire Fighting | Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. |
| Fire/Explosion Hazard | Non combustible. Not considered a significant fire risk, however containers may burn. Decomposition may produce toxic fumes of: sulfur oxides (SOx) May emit poisonous fumes. May emit corrosive fumes. |
| HAZCHEM | Not Applicable |

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

| Minor Spills | Environmental hazard - contain spillage. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. |
|--------------|---|
| Major Spills | Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by all means available, spillage from entering drains or water courses. Environmental hazard - contain spillage. |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

▶ Avoid all personal contact, including inhalation. ► Wear protective clothing when risk of exposure occurs. Safe handling Use in a well-ventilated area. Avoid contact with moisture.

► DO NOT allow clothing wet with material to stay in contact with skin

Other information

Conditions for safe storage, including any incompatibilities

Suitable container

- Polyethylene or polypropylene container.
- Packing as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

Elmax Base 1 Print Date: 1/1/2021

Issue Date: 1/1/2021

Storage incompatibility

- WARNING: Avoid or control reaction with peroxides. All transition metal peroxides should be considered as potentially explosive. For example transition metal complexes of alkyl hydroperoxides may decompose explosively.
- ► The pi-complexes formed between chromium(0), vanadium(0) and other transition metals (haloarene-metal complexes) and mono-or poly-fluorobenzene show extreme sensitivity to heat and are explosive.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|------------------------------|--------------------|-----------------------------------|-----------|---------------|---------------|---------------|
| Australia Exposure Standards | nickel(II) sulfate | Nickel, soluble compounds (as Ni) | 0.1 mg/m3 | Not Available | Not Available | Not Available |

EMERGENCY LIMITS

| Ingredient | Material name | TEEL-1 | TEEL-2 | TEEL-3 |
|--------------------|--|------------|-----------|----------|
| nickel(II) sulfate | Nickel sulfate hexahydrate; (Nickel(II) sulfate hexahydrate) | 1.3 mg/m3 | 8.7 mg/m3 | 52 mg/m3 |
| nickel(II) sulfate | Nickel sulfate; (Nickel(II) sulfate) | 0.79 mg/m3 | 8.6 mg/m3 | 51 mg/m3 |

| Ingredient | Original IDLH | Revised IDLH |
|--------------------|---------------|---------------|
| nickel(II) sulfate | 10 mg/m3 | Not Available |

Exposure controls

Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

Personal protection









- Safety glasses with side shields.
- Eve and face protection
 - Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

Skin protection

Hands/feet protection

See Hand protection below

- ► Wear chemical protective gloves, e.g. PVC.
- ► Wear safety footwear or safety gumboots, e.g. Rubber

NOTE:

- ▶ The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- ▶ Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care.

Body protection

See Other protection below

► Employees wo

- ► Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent]
- ► Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filter-type respirators with filters for dusts, mists and fumes, or air purifying canisters or cartridges. A respirator affording higher levels of protection may be substituted.

 [AS/NZS 1715 or national equivalent]
- Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with locations where direct exposure is likely.

Other protection

- Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers must be identified with suitable labels. For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments, including gloves, boots and continuous-air supplied hood.
- Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood.
- Overalls.
- ► P.V.C. apron.
- Barrier cream.

Thermal hazards

Not Available

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance

Clear greenish liquid

Chemwatch: 9-328850 Version No: 1.1

Elmax Base 1

Page 5 of 8 Issue Date: 1/1/2021
Print Date: 1/1/2021

| Physical state | Liquid | Relative density (Water = 1) | 1.20-1.28 |
|--|---------------|---|---------------|
| Odour | Slight | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Available |
| pH (as supplied) | 3.0-3.5 | Decomposition temperature | Not Available |
| Melting point / freezing point (°C) | 0 | Viscosity (cSt) | Not Available |
| Initial boiling point and boiling range (°C) | 100 | Molecular weight (g/mol) | Not Available |
| Flash point (°C) | Not Available | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Not Available | Oxidising properties | Not Available |
| Upper Explosive Limit (%) | Not Available | Surface Tension (dyn/cm or mN/m) | Not Available |
| Lower Explosive Limit (%) | Not Available | Volatile Component (%vol) | Not Available |
| Vapour pressure (kPa) | Not Available | Gas group | Not Available |
| Solubility in water (g/L) | Miscible | pH as a solution (1%) | Not Available |
| Vapour density (Air = 1) | Not Available | VOC g/L | Not Available |

SECTION 10 STABILITY AND REACTIVITY

| Reactivity | See section 7 |
|------------------------------------|--|
| Chemical stability | Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur. |
| Possibility of hazardous reactions | See section 7 |
| Conditions to avoid | See section 7 |
| Incompatible materials | See section 7 |
| Hazardous decomposition products | See section 5 |

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

| Inhaled | The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. | | | | |
|----------------|--|---|--|--|--|
| Ingestion | Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. | | | | |
| Skin Contact | This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. | | | | |
| Eye | This material can cause eye irritation and damage in some persons. | | | | |
| Chronic | Long-term exposure to respiratory irritants may result in airways disease, invostrong evidence exists that this substance may cause irreversible mutations (Inhaling this product is more likely to cause a sensitisation reaction in some p Skin contact with the material is more likely to cause a sensitisation reaction in There is sufficient evidence to suggest that this material directly causes cance Toxic: danger of serious damage to health by prolonged exposure through inh This material can cause serious damage if one is exposed to it for long period defects. Ample evidence exists, from results in experimentation, that developmental dis Laboratory (in vitro) and animal studies show, exposure to the material may remutation. Substance accumulation, in the human body, may occur and may cause some Nickel causes a skin sensitisation which may produce a chronic eczema. At fir which discharge and become crusted. Nickel dusts, furnes and salts are potent contact allergens and sensitisers pro In the absence of properly designed ventilation systems or where respiratory probables. | though not lethal) even folkersons compared to the get some persons compared er in humans. alation. It can be assumed that it orders are directly caused lessult in a possible risk of irreconcern following repeated at an itch appears followed aducing a dermatitis known | owing a single exposure. In the general population. It contains a substance which can produce severe by human exposure to the material. Reversible effects, with the possibility of producing If or long-term occupational exposure. If one week later by a red skin eruption with ulcers as "nickel" rash. | | |
| Elmax Base 1 | TOXICITY Not Available | IRRITATION Not Available | | | |
| 1.1.100 - 16-1 | TOXICITY | | IRRITATION | | |

Oral (rat) LD50: 264 mg/kg^[2]

nickel(II) sulfate

Not Available

Chemwatch: 9-328850 Page 6 of 8
Version No: 1.1

Elmax Base 1

data extracted from RTECS - Register of Toxic Effect of chemical Substances

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. Allergic reactions involving the respiratory tract are usually due to interactions between IqE antibodies and allergens and occur rapidly. Allergic potential of

Allergic reactions involving the respiratory tract are usually due to interactions between IgE antibodies and allergens and occur rapidly. Allergic potential of the allergen and period of exposure often determine the severity of symptoms. Some people may be genetically more prone than others, and exposure to other irritants may aggravate symptoms. Allergy causing activity is due to interactions with proteins.

Attention should be paid to atopic diathesis, characterised by increased susceptibility to nasal inflammation, asthma and eczema.

Exogenous allergic alveolitis is induced essentially by allergen specific immune-complexes of the IgG type; cell-mediated reactions (T lymphocytes) may be involved. Such allergy is of the delayed type with onset up to four hours following exposure.

The following information refers to contact allergens as a group and may not be specific to this product.

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions.

| Acute Toxicity | ✓ | Carcinogenicity | ✓ |
|-----------------------------------|----------|--------------------------|----------|
| Skin Irritation/Corrosion | ✓ | Reproductivity | ✓ |
| Serious Eye Damage/Irritation | ✓ | STOT - Single Exposure | 0 |
| Respiratory or Skin sensitisation | ~ | STOT - Repeated Exposure | ✓ |
| Mutagenicity | ✓ | Aspiration Hazard | 0 |

Legend:

🗶 – Data available but does not fill the criteria for classification

Issue Date: 1/1/2021

Print Date: 1/1/2021

— Data available to make classification

N - Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Flmax Base 1

Toxicity

| Elmax Base 1 | ENDPOINT | TEST DURATION (HR) | | SPECIES | VALUE | | SOURCE | |
|---------------------|--|--------------------|-------------------------------|---------------|-------------|---------------|--------|--|
| Elillax base i | | | Not Available | Not Available | | Not Available | | |
| | | | | | | | | |
| | ENDPOINT | TEST DURATION (HR) | SPECIES | | VALUE | | SOURCE | |
| | LC50 | 96 | Fish | | 0.4mg/L | | 2 | |
| nickel/II) culfate | EC50 | 48 | Crustacea | | 0.1455mg/L | | 2 | |
| ilickei(ii) Suilate | nickel(II) sulfate EC50 72 Algae or ot | | Algae or other aquatic plants | | 0.0407mg/L | | 2 | |
| | BCF | 240 | Algae or other aquatic plants | | 81.8mg/L | | 4 | |
| | NOEC | 96 | Fish | | 0.00024mg/L | | 4 | |
| | | | | | | | | |

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

For Nickel: Transport and distribution of nickel particulates between different environmental compartments, is strongly influenced by particle size. Fine particulate matter has a longer residence time in the environment and is carried a long distance from its source; larger particles are deposited near the emission source.

Atmospheric Fate: Atmospheric residence time for nickel particulates is estimated to be 5.4-7.9 days

Adjustic Fate: Drinking Water Standards: Nickel 50 up/l (LIK max.) 20 up/l (WHO quideline)

Aquatic Fate: Drinking Water Standards: Nickel 50 ug/l (UK max.) 20 ug/l (WHO guideline).

DO NOT discharge into sewer or waterways

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|--------------------|-------------------------|------------------|
| nickel(II) sulfate | HIGH | HIGH |

Bioaccumulative potential

| Ingredient | Bioaccumulation |
|--------------------|-----------------|
| nickel(II) sulfate | LOW (BCF = 31) |

Mobility in soil

| Ingredient | Mobility |
|--------------------|-------------------|
| nickel(II) sulfate | LOW (KOC = 6.124) |

Elmax Base 1

Issue Date: 1/1/2021 Print Date: 1/1/2021

Waste treatment methods

- ▶ Containers may still present a chemical hazard/ danger when empty.
- ▶ Return to supplier for reuse/ recycling if possible.

Otherwise:

- If container cannot be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- ▶ Where possible retain label warnings and SDS and observe all notices pertaining to the product.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- ▶ Reduction

Product / Packaging disposal

- Reuse Recycling
- Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains
- It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- ▶ Recycle wherever possible.
- ▶ Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- ▶ Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).
- ► Decontaminate empty containers.

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant



HAZCHEM

Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

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

NICKEL(II) SULFATE(7786-81-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards Australia Inventory of Chemical Substances (AICS) Australia Hazardous Substances Information System - Consolidated Lists International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

| National Inventory | Status |
|-------------------------------|---|
| Australia - AICS | Υ |
| Canada - DSL | Υ |
| Canada - NDSL | N (nickel(II) sulfate) |
| China - IECSC | Y |
| Europe - EINEC / ELINCS / NLP | Υ |
| Japan - ENCS | Y |
| Korea - KECI | Υ |
| New Zealand - NZIoC | Υ |
| Philippines - PICCS | Y |
| USA - TSCA | Υ |
| Legend: | Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) |

SECTION 16 OTHER INFORMATION

Other information

Ingredients with multiple cas numbers

Chemwatch: 9-328850 Page 8 of 8 Version No: 1.1

Elmax Base 1

Name CAS No nickel(II) sulfate $7786-81-4,\,10101-97-0,\,15244-37-8,\,14168-76-4,\,61092-77-1,\,10101-98-1$

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit.

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection

OTV: Odour Threshold Value BCF: BioConcentration Factors

BEI: Biological Exposure Index

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Issue Date: 1/1/2021 Print Date: 1/1/2021