PRESTO STAINLESS BLACK

Barnes Products P/L

Chemwatch: 5679-53 Version No: 2.1

Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements

Chemwatch Hazard Alert Code: 3

Issue Date: **24/05/2024** Print Date: **17/06/2024** S.GHS.AUS.EN.E

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

| ۲r | oduc | et Id | ent | itier |
|----|------|-------|-----|-------|
| | | | | |

| Product name | PRESTO STAINLESS BLACK | |
|-------------------------------|---|--|
| Chemical Name | Not Applicable | |
| Synonyms | PRESTO BLACK SSB | |
| Proper shipping name | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (contains fluoboric acid, selenious acid and phosphoric acid) | |
| Chemical formula | Not Applicable | |
| Other means of identification | Not Available | |

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

Relevant identified uses

Blackening solution for stainless steel alloys. Use according to manufacturer's directions.

Details of the manufacturer or supplier of the safety data sheet

| Registered company name | Barnes Products P/L | |
|-------------------------|--|--|
| Address | 5 Greenhills Avenue Moorebank NSW 2170 Australia | |
| Telephone | +61 2 9793 7555 | |
| Fax | +61 2 9793 7091 | |
| Website | http://www.barnes.com.au/ | |
| Email | sales@barnes.com.au | |

Emergency telephone number

| • • • | | |
|-----------------------------------|--|--|
| Association / Organisation | Barnes Products Pty Ltd | |
| Emergency telephone numbers | +61 2 9793 7555 Business Hours | |
| Other emergency telephone numbers | Poisons Information Centre 13 1126 after hours | |

SECTION 2 Hazards identification

Classification of the substance or mixture

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

Chemwatch Hazard Ratings

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

| Poisons Schedule | S6 |
|-------------------------------|--|
| Classification ^[1] | Corrosive to Metals Category 1, Acute Toxicity (Oral) Category 3, Skin Corrosion/Irritation Category 1A, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity (Inhalation) Category 2, Sensitisation (Respiratory) Category 1, Germ Cell Mutagenicity Category 2, Carcinogenicity Category 1A, Reproductive Toxicity Category 1A, Specific Target Organ Toxicity - Repeated Exposure Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 1 |
| Legend: | 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI |

Label elements

Hazard pictogram(s)









Signal word

Danger

Hazard statement(s)

H290

May be corrosive to metals.

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| H301 | Toxic if swallowed. | |
|-------|--|--|
| H314 | Causes severe skin burns and eye damage. | |
| H317 | May cause an allergic skin reaction. | |
| H330 | Fatal if inhaled. | |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. | |
| H341 | Suspected of causing genetic defects. | |
| H350 | May cause cancer. | |
| H360D | May damage the unborn child. | |
| H373 | May cause damage to organs through prolonged or repeated exposure. | |
| H410 | Very toxic to aquatic life with long lasting effects. | |

Precautionary statement(s) Prevention

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| P201 | Obtain special instructions before use. | |
|------|--|--|
| P260 | Do not breathe mist/vapours/spray. | |
| P264 | Wash all exposed external body areas thoroughly after handling. | |
| P270 | Do not eat, drink or smoke when using this product. | |
| P271 | Use only outdoors or in a well-ventilated area. | |
| P280 | Wear protective gloves, protective clothing, eye protection and face protection. | |
| P284 | [In case of inadequate ventilation] wear respiratory protection. | |

Precautionary statement(s) Response

| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider. | | |
|---|--|--|--|
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If more than 15 mins from Doctor, INDUCE VOMITING (if conscious). | | |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. | | |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. | | |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. | | |
| P308+P313 IF exposed or concerned: Get medical advice/ attention. | | | |
| P342+P311 | If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician/first aider. | | |

Precautionary statement(s) Storage

| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. | |
|-----------|--|--|
| P405 | Store locked up. | |

Precautionary statement(s) Disposal

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name |
|---|---------------------------------|------------------------------|
| 7783-00-8 | 10-30 | selenious acid |
| 16872-11-0 | 1-15 | fluoboric acid |
| 7758-99-8 | 1-10 | copper sulfate, pentahydrate |
| 7664-38-2 | 1-5 | phosphoric acid |
| 7786-81-4 | 0.1-3 <u>nickel(II) sulfate</u> | |
| 7732-18-5 | 60-100 | <u>water</u> |
| Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available | | |
| | | |

SECTION 4 First aid measures

Description of first aid measures

If this product comes in contact with the eyes:

 Immediately hold eyelids apart and flush the eye continuously with 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.

▶ Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.

Transport to hospital or doctor without delay.

• Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact

Eye Contact

If there is evidence of severe skin irritation or skin burns:

- ▶ Avoid further contact. Immediately remove contaminated clothing, including footwear.
- Flush skin under running water for 15 minutes.
- Avoiding contamination of the hands, massage calcium gluconate gel into affected areas, pay particular attention to creases in skin.
- Contact the Poisons Information Centre.
- ▶ Continue gel application for at least 15 minutes after burning sensation ceases.

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| | If pain recurs, repeat application of calcium gluconate gel or apply every 20 minutes. If no gel is available, continue washing for at least 15 minutes, using soap if available. If patient is conscious, give six calcium gluconate or calcium carbonate tablets in water by mouth. Transport to hospital, or doctor, urgently. |
|------------|---|
| Inhalation | If fumes 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. For massive exposures: If dusts, vapours, aerosols, fumes 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. If victim is conscious, give six calcium gluconate or calcium carbonate tablets in water by mouth. Transport to hospital, or doctor, urgently. |
| Ingestion | For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Transport to hospital or doctor without delay. |

Indication of any immediate medical attention and special treatment needed

Following acute or short term repeated exposure to hydrofluoric acid:

- Subcutaneous injections of Calcium Gluconate may be necessary around the burnt area. Continued application of Calcium Gluconate Gel or subcutaneous Calcium Gluconate should then continue for 3-4 days at a frequency of 4-6 times per day. If a "burning" sensation recurs, apply more frequently
- Systemic effects of extensive hydrofluoric acid burns include renal damage, hypocalcaemia and consequent cardiac arrhythmias. Monitor haematological, respiratory, renal, cardiac and electrolyte status at least daily. Tests should include FBE, blood gases, chest X-ray, creatinine and electrolytes, urine output, Ca ions, Mg ions and phosphate ions. Continuous ECG monitoring may be required.
- Where serum calcium is low, or clinical, or ECG signs of hypocalcaemia develop, infusions of calcium gluconate, or if less serious, oral Sandocal, should be given. Hydrocortisone 500 mg in a four to six hourly infusion may help.
- Antibiotics should not be given as a routine, but only when indicated.
- Eye contact pain may be excruciating and 2-3 drops of 0.05% pentocaine hydrochloride may be instilled, followed by further irrigation

BIOLOGICAL EXPOSURE INDEX - BEI

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

Determinant Index Sampling Time Comments 1.5% of haemoglobin During or end of shift B. NS. SQ Methaemoglobin in blood

B: Background levels occur in specimens collected from subjects NOT exposed

NS: Non-specific determinant: Also seen after exposure to other materials

SQ: Semi-quantitative determinant - Interpretation may be ambiguous; should be used as a screening test or confirmatory test.

for copper intoxication:

- Treat symptomatically.
- resulting copper ferrocyanide is insoluble). Administer egg white and other demulcents.
- Maintain electrolyte and fluid balances.
- Morphine or meperidine (Demerol) may be necessary for control of pain.
- If symptoms persist or intensify (especially circulatory collapse or cerebral disturbances, try BAL intramuscularly or penicillamine in accordance with the supplier's recommendations
- Treat shock vigorously with blood transfusions and perhaps vasopressor amines.
- If intravascular haemolysis becomes evident protect the kidneys by maintaining a diuresis with mannitol and perhaps by alkalinising the urine with sodium bicarbonate.

▶ Unless extensive vomiting has occurred empty the stomach by lavage with water, milk, sodium bicarbonate solution or a 0.1% solution of potassium ferrocyanide (the

- It is unlikely that methylene blue would be effective against the occassional methaemoglobinemia and it might exacerbate the subsequent haemolytic episode.
- Institute measures for impending renal and hepatic failure.

[GOSSELIN, SMITH & HODGE: Commercial Toxicology of Commercial Products]

- A role for activated charcoals for emesis is, as yet, unproven.
- In severe poisoning CaNa2EDTA has been proposed.

[ELLENHORN & BARCELOUX: Medical Toxicology]

- 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.
- Firritant 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.
- Selenium dusts produce respiratory tract irritation, manifested by nasal discharge, loss of smell, epistaxis, and cough. Consumption of selenites and to a lesser degree, selenates causes nausea, vomiting, abdominal pain and tremor which resolves in 24 hrs. Muscle tenderness, tremor, light-headedness and facial flushing are observed in selenite poisonina
- Both the acid and elemental form are well absorbed through the lungs and gastro-intestinal tract. Elimination (mostly in the urine) results in a biological half-life of around 1.2
- Chronic selenium poisoning resembles arsenic poisoning. Management of chronic intoxication is supportive with elimination of the selenium source. BAL and CaNa2EDTA may enhance toxicity.
- High dose vitamin C (several grams daily) has produced equivocal results. This is probably reasonable as in-vitro results indicate selenium salts are then reduced to poorly absorbed elemental selenium

Management of chronic selenium intoxication is supportive with elimination of the selenium source. BAL (dimercaprol, 2,3-dimercaptopropanol) and CaNa2EDTA may enhance toxicity

There are no antidotes to selenious acid toxicity; treatment is expectant (cardiopulmonary monitoring in an intensive care setting) and supportive (intravenous infusion, supplemental oxygen and ventilation as needed)

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Extinguishing media

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances.

In such an event consider:

▶ foam.

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- dry chemical powder.
- carbon dioxide.

Special hazards arising from the substrate or mixture

| Fire Incompatibility | None known. |
|-------------------------|--|
| Advice for firefighters | |
| Fire Fighting | Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use fire fighting procedures suitable for surrounding area. Do not approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. |
| Fire/Explosion Hazard | Non combustible. Not considered to be a significant fire risk. Acids may react with metals to produce hydrogen, a highly flammable and explosive gas. Heating may cause expansion or decomposition leading to violent rupture of containers. May emit corrosive, poisonous fumes. May emit acrid smoke. carbon dioxide (CO2) hydrogen fluoride nitrogen oxides (NOX) phosphorus oxides (POx) sulfur oxides (SOx) metal oxides other pyrolysis products typical of burning organic material. |
| HAZCHEM | 2X |

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. Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material. Check regularly for spills and leaks. 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. Wipe up. Place in a suitable, labelled container for waste disposal. |
|--------------|---|
| Major Spills | Environmental hazard - contain spillage. 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 any means available, spillage from entering drains or water course. Consider evacuation (or protect in place). Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. |

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

SECTION 7 Handling and storage

| Precautions for safe handling | |
|-------------------------------|---|
| Safe handling | DO NOT allow clothing wet with material to stay in contact with skin Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Avoid contact with moisture. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. |
| Other information | Consider storage under inert gas. Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. |

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Conditions for safe storage, including any incompatibilities

Suitable container

- DO NOT use aluminium or galvanised containers
- Check regularly for spills and leaks
- Lined metal can, lined metal pail/ can.
- Plastic pail.
- Polyliner drum
- Packing as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

For low viscosity materials

- Drums and jerricans must be of the non-removable head type.
- ▶ Where a can is to be used as an inner package, the can must have a screwed enclosure

For materials with a viscosity of at least 2680 cSt. (23 deg. C) and solids (between 15 C deg. and 40 deg C.):

- ▶ Removable head packaging;
 - Cans with friction closures and
 - Iow pressure tubes and cartridges

may be used.

Where combination packages are used, and the inner packages are of glass, porcelain or stoneware, there must be sufficient inert cushioning material in contact with inner and outer packages unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.

Inorganic derivative of Group 11 metal

Fluoboric acid:

- is a strong inorganic acid; reacts violently with strong bases
- reacts slowly with water forming hydroxyfluoborate ions
- is incompatible with strong oxidisers, acetic anhydride, sulfuric acid, caustics, carbonates, ammonia, aliphatic amines, alkanolamines, amides, organic anhydrides, isocyanates, vinyl acetate, alkylene oxides, epichlorohydrin, sulfides
- ▶ attacks metals forming flammable hydrogen gas

Selenious acid:

- reacts with air to give selenium oxide and water
- reacts with oxidisers, forming selenic acid, and with reducing agents, forming selenium
- aqueous solutions are incompatible with sulfuric acid, caustics, ammonia, aliphatic amines, alkanolamines, amides, organic anhydrides, isocyanates, vinyl acetate, alkylene oxides, epichlorohydrin

The substance may be or contains a "metalloid"

The following elements are considered to be metalloids; boron, silicon, germanium, arsenic, antimony, tellurium and (possibly) polonium The electronegativities and ionisation energies of the metalloids are between those of the metals and nonmetals, so the metalloids exhibit characteristics of both classes. The reactivity of the metalloids depends on the element with which they are reacting. For example, boron acts as a nonmetal when reacting with sodium yet as a metal when reacting with fluorine.

Unlike most metals, most metalloids are amphoteric- that is they can act as both an acid and a base. For instance, arsenic forms not only salts such as arsenic halides, by the reaction with certain strong acid, but it also forms arsenites by reactions with strong bases. Most metalloids have a multiplicity of oxidation states or valences. For instance, tellurium has the oxidation states +2, -2, +4, and +6.

- Inorganic acids are generally soluble in water with the release of hydrogen ions. The resulting solutions have pH's of less than 7.0.
- Inorganic acids neutralise chemical bases (for example: amines and inorganic hydroxides) to form salts neutralisation can generate dangerously large amounts of heat in small spaces.
- ▶ The dissolution of inorganic acids in water or the dilution of their concentrated solutions with additional water may generate significant heat
- The addition of water to inorganic acids often generates sufficient heat in the small region of mixing to cause some of the water to boil explosively. The resulting "bumping" can spatter the acid.
- Inorganic acids react with active metals, including such structural metals as aluminum and iron, to release hydrogen, a flammable gas.
- Reacts with mild steel, galvanised steel / zinc producing hydrogen gas which may form an explosive mixture with air.

Copper sulfate:

- reacts violently with strong bases, hydroxylamine.(with ignition), magnesium (producing hydrogen gas)
- in contact with potassium chlorate is potentially explosive
- ▶ solutions are acidic and can react with metals to evolve flammable hydrogen gas. corrosive to some metals including steel.
- F is incompatible with sulfuric acid, caustics, ammonia, aliphatic amines, alkanolamines, amides, alkylene oxides, epichlorohydrin, organic anhydrides, isocyanates, vinyl acetate
- dusts or mists may react with acetylene to form shock-sensitive copper acetylides

Hydrogen fluoride:

- reacts violently with strong oxidisers, acetic anhydride, alkalis, 2-aminoethanol, arsenic trioxide (with generation of heat), bismuthic acid, calcium oxide, chlorosulfonic acid, cyanogen fluoride, ethylenediamine, ethyleneimine, fluorine (fluorine gas reacts vigorously with a 50% hydrofluoric acid solution and may burst into flame), nitrogen trifluoride, N-phenylazopiperidine, oleum, oxygen difluoride phosphorus pentoxide, potassium permanganate, potassium tetrafluorosilicate(2-), beta-propiolactone, propylene oxide, sodium, sodium tetrafluorosilicate, sulfuric acid, vinyl acetate
- reacts (possibly violently) with aliphatic amines, alcohols, alkanolamines, alkylene oxides, aromatic amines, amides, ammonia, ammonium hydroxide, epichlorohydrin, isocyanates, metal acetylides, metal silicides, methanesulfonic acid, nitrogen compounds, organic anhydrides, oxides, silicon compounds, vinylidene fluoride
- attacks glass and siliceous materials, concrete, ceramics, metals (flammable hydrogen gas may be produced), metal alloys, some plastics, rubber coatings, leather, and most other materials with the exception of lead, platinum, polyethylene, wax
- Avoid storage with reducing agents.
- Avoid strong acids, bases
- ▶ Segregate from alkalies, oxidising agents and chemicals readily decomposed by acids, i.e. cyanides, sulfides, carbonates.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

Storage incompatibility

INGREDIENT DATA

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|------------------------------|-----------------------|--|--------------|------------------|------------------|--|
| Australia Exposure Standards | selenious acid | Selenium compounds (as Se) excluding hydrogen selenide | 0.1 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | phosphoric acid | Phosphoric acid | 1 mg/m3 | 3 mg/m3 | Not Available | Not Available |
| Australia Exposure Standards | nickel(II) sulfate | Nickel,soluble compounds (as Ni) | 0.1 mg/m3 | Not Available | Not Available | (g) Some compounds in these groups are classified as carcinogenic or as sensitisers. Check individual classification details on the safety data sheet for information on classification. |

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Emergency Limits

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| Ingredient | TEEL-1 | TEEL-2 | TEEL-3 |
|------------------------------|---------------|---------------|---------------|
| selenious acid | 23 mg/m3 | 250 mg/m3 | 1,500 mg/m3 |
| fluoboric acid | 8.7 mg/m3 | 97 mg/m3 | 580 mg/m3 |
| copper sulfate, pentahydrate | 7.5 mg/m3 | 9.9 mg/m3 | 59 mg/m3 |
| copper sulfate, pentahydrate | 12 mg/m3 | 32 mg/m3 | 190 mg/m3 |
| phosphoric acid | Not Available | Not Available | Not Available |
| nickel(II) sulfate | 1.3 mg/m3 | 8.7 mg/m3 | 52 mg/m3 |
| nickel(II) sulfate | 0.79 mg/m3 | 8.6 mg/m3 | 51 mg/m3 |

| Ingredient | Original IDLH | Revised IDLH |
|------------------------------|---------------|---------------|
| selenious acid | 1 mg/m3 | Not Available |
| fluoboric acid | Not Available | Not Available |
| copper sulfate, pentahydrate | Not Available | Not Available |
| phosphoric acid | 1,000 mg/m3 | Not Available |
| nickel(II) sulfate | 10 mg/m3 | Not Available |
| water | Not Available | Not Available |

Occupational Exposure Banding

| Ingredient | Occupational Exposure Band Rating | Occupational Exposure Band Limit |
|------------------------------|--|----------------------------------|
| fluoboric acid | E | ≤ 0.1 ppm |
| copper sulfate, pentahydrate | E | ≤ 0.01 mg/m³ |
| Notes: | Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health. | |

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. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

Individual protection measures, such as personal protective equipment









Eve and face protection

- Safety glasses with unperforated side shields may be used where continuous eye protection is desirable, as in laboratories; spectacles are not sufficient where complete eye protection is needed such as when handling bulk-quantities, where there is a danger of splashing, or if the material may be under pressure.
- Chemical goggles. Whenever there is a danger of the material coming in contact with the eyes; goggles must be properly fitted. [AS/NZS 1337.1, EN166 or national equivalent]
 Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary protection of eyes; these afford face
- protection.
- Alternatively a gas mask may replace splash goggles and face shields.
 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

See Hand protection below

▶ Elbow length PVC gloves

When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.
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.

Hands/feet protection

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. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Body protection

See Other protection below

Other protection

- Overalls.
- PVC Apron.PVC protective suit may be required if exposure severe.
- Evewash unit.
- Ensure there is ready access to a safety shower.

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

Respiratory protection

Type AB-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

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| Material | СРІ |
|-------------------|-----|
| NEOPRENE | A |
| BUTYL | С |
| NAT+NEOPR+NITRILE | С |
| NATURAL RUBBER | С |
| NATURAL+NEOPRENE | С |
| NEOPRENE/NATURAL | С |
| NITRILE | С |
| NITRILE+PVC | С |
| PE | С |
| PVA | С |
| PVC | С |
| SARANEX-23 | С |
| VITON | С |

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory: may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|---------------------------------------|-------------------------|-------------------------|-----------------------------|
| up to 10 x ES | AB-AUS P2 | - | AB-PAPR-AUS / Class 1 P2 |
| up to 50 x ES | - | AB-AUS / Class 1 P2 | - |
| up to 100 x ES | - | AB-2 P2 | AB-PAPR-2 P2 ^ |

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or Action classes, D2 — Action gasses, D2 — Actio Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- ▶ Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- ▶ The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

| Appearance | Clear green liquid. | | |
|--|---------------------|---|----------------|
| Dhariaal state | Limite | Deletine deneito (Meter 4) | 4.407 |
| Physical state | Liquid | Relative density (Water = 1) | 1.127 |
| Odour | No Odour | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Available |
| pH (as supplied) | <1.0 | Decomposition temperature (°C) | Not Available |
| Melting point / freezing point (°C) | Not Available | Viscosity (cSt) | Not Available |
| Initial boiling point and boiling range (°C) | >100 | Molecular weight (g/mol) | Not Applicable |
| Flash point (°C) | Not Available | Taste | Not Available |
| Evaporation rate | <1.0 | 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 Applicable |
| Vapour pressure (kPa) | Not Available | Gas group | Not Available |
| Solubility in water | 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 | ▶ Contact with alkaline material liberates heat |
| 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

There is strong evidence to suggest that this material can cause, if inhaled once, very serious, irreversible damage of organs, Corrosive acids can cause irritation of the respiratory tract, with coughing, choking and mucous membrane damage. There may be dizziness, headache, nausea and weakness

Copper poisoning following exposure to copper dusts and fume may result in headache, cold sweat and weak pulse. Capillary, kidney, liver and brain damage are the longer term manifestations of such poisoning. Inhalation of freshly formed metal oxide particles sized below 1.5

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microns and generally between 0.02 to 0.05 microns may result in "metal fume fever". Symptoms may be delayed for up to 12 hours and begin with the sudden onset of thirst, and a sweet, metallic or foul taste in the mouth. Other symptoms include upper respiratory tract irritation accompanied by coughing and a dryness of the mucous membranes, lassitude and a generalised feeling of malaise. Mild to severe headache, nausea, occasional vomiting, fever or chills, exaggerated mental activity, profuse sweating, diarrhoea, excessive urination and prostration may also occur. Tolerance to the fumes develops rapidly, but is quickly lost. Inhalation of dusts, generated by the material, during the course of normal handling, may produce toxic effects There is strong evidence to suggest that this material can cause, if swallowed once, very serious, irreversible damage of organs. Ingestion of acidic corrosives may produce burns around and in the mouth, the throat and oesophagus. Immediate pain and difficulties in swallowing and speaking may also be evident. Borate poisoning causes nausea, vomiting, diarrhoea and pain in the upper abdomen. Often persistent vomiting occurs, and there may be Acute effects of selenium poisoning include nervousness, convulsions, drowsiness, frontal headaches, and in extreme cases, death from Ingestion respiratory depression. There may also be skin eruptions, tiredness, stomach upset, discolouration of teeth, an odorous garlic breath and loss of hair and nails. A metallic taste, nausea, vomiting and burning feeling in the upper stomach region occur after ingestion of copper and its derivatives. The vomitus is usually green/blue and discolours contaminated skin. Severely toxic effects may result from the accidental ingestion of the material; animal experiments indicate that ingestion of less than 5 gram may be fatal or may produce serious damage to the health of the individual. fatal if swallowed unless immediate treatment is applied Skin contact with the material may be harmful; systemic effects may result following absorption. There is strong evidence to suggest that this material, on a single contact with skin, can cause very serious, irreversible damage of organs. Skin contact with acidic corrosives may result in pain and burns; these may be deep with distinct edges and may heal slowly with the formation of scar tissue. 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. Fluorides are easily absorbed through the skin and cause death of soft tissue and erode bone. Healing is delayed and death of tissue may continue to spread beneath skin. Skin Contact Contact of the skin with liquid hydrofluoric acid (hydrogen fluoride) may cause severe burns, erythema, and swelling, vesiculation, and serious crusting. With more serious burns, ulceration, blue-gray discoloration, and necrosis may occur. Solutions of hydrofluoric acid, as dilute as 2%, may cause severe skin burns Dermal burns may not be readily noticed or painful, unlike the warning properties of other acids. Skin contact with HF concentrations in the 20% to 50% range may not produce symptoms for one to eight hours. With concentrations less than 20%, the latency period may be up to twenty-four hours. A solution of only 1-2% HF exposed to greater than 10% of the body is fatal without medical attention; however dermal burns are not likely immediate. Exposure to copper, by skin, has come from its use in pigments, ointments, ornaments, jewellery, dental amalgams and IUDs (intra-uterine devices), and in killing fungi and algae. Although copper is used in the treatment of water in swimming pools and reservoirs, there are no reports of toxicity from these applications. Direct eye contact with acid corrosives may produce pain, tears, sensitivity to light and burns. Mild burns of the epithelia generally recover rapidly and completely Eve If applied to the eyes, this material causes severe eye damage. Irritation of the eyes may produce a heavy secretion of tears (lachrymation). Copper salts, in contact with the eye, may produce inflammation of the conjunctiva, or even ulceration and cloudiness of the cornea. Repeated or prolonged exposure to acids may result in the erosion of teeth, swelling and/or ulceration of mouth lining. Irritation of airways to lung, with cough, and inflammation of lung tissue often occurs. Strong evidence exists that this substance may cause irreversible mutations (though not lethal) even following a single exposure. Inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects. Ample evidence exists that developmental disorders are directly caused by human exposure to the material. Studies show that inhaling this substance for over a long period (e.g. in an occupational setting) may increase the risk of cancer. Ample evidence exists, from results in experimentation, that developmental disorders are directly caused by human exposure to the material. Fluoroborates, unlike other inorganic fluorides, are not stored in the bone. Much of it is rather excreted in the urine, leaving little opportunity for fluoride ion storage. However, fluoroborates do accumulate in the thyroid gland, preventing uptake of iodine. Animal testing shows that chronic exposure to boron trifluoride may cause elevated levels of bone fluoride and fluorosis of the teeth. Nickel causes a skin sensitisation which may produce a chronic eczema. At first an itch appears followed one week later by a red skin eruption with ulcers which discharge and become crusted. Chronic For copper and its compounds (typically copper chloride): Acute toxicity: There are no reliable acute oral toxicity results available. Animal testing shows that skin in exposure to copper may lead to hardness of the skin, scar formation, exudation and reddish changes. Inflammation, irritation and injury of the skin were noted. Repeat dose toxicity: Animal testing shows that very high levels of copper monochloride may cause anaemia. Genetic toxicity: Copper monochloride does not appear to cause mutations in vivo, although chromosomal aberrations were seen at very high concentrations in vitro. Cancer-causing potential: There was insufficient information to evaluate the cancer-causing activity of copper monochloride. Borate can accumulate in the testes and deplete germ cells and cause withering of the testicles, according to animal testing. Hair loss, skin inflammation, stomach ulcer and anaemia can all occur. There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems Chronic exposure to selenium and its compounds irritate the bronchi, cause gastrointestinal problems, irritation of the nasopharynx and a persistent foul garlic breath. There is often a metallic taste, pallor, irritability, extreme tiredness after years of exposure. Extended exposure to inorganic fluorides causes fluorosis, which includes signs of joint pain and stiffness, tooth discolouration, nausea and vomiting, loss of appetite, diarrhoea or constipation, weight loss, anaemia, weakness and general unwellness. There may also be frequent urination and thirst TOXICITY IRRITATION PRESTO STAINLESS BLACK Not Available Not Available TOXICITY IRRITATION Dermal (rabbit) LD50: 4 mg/kg^[2] Not Available selenious acid

IRRITATION

Not Available

Oral (Rat) LD50: 25 mg/kg^[2]

Oral (Rat) LD50: 100 mg/kg^[2]

TOXICITY

fluoboric acid

| Continued | |
|-----------|--|
| | |
| | |

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| | TOXICITY | IRRITATION | | |
|--|--|--|--|--|
| copper sulfate, pentahydrate | dermal (rat) LD50: >2000 mg/kg ^[2] | Not Available | | |
| coppor camato, pomany arato | Oral (Mouse) LD50; 43 mg/kg ^[2] | | | |
| | , , , | | | |
| | TOXICITY | IRRITATION | | |
| | Dermal (rabbit) LD50: >1260 mg/kg ^[2] | Eye (rabbit): 119 mg - SEVERE [Monsanto]* | | |
| phosphoric acid | Inhalation (Rat) LC50: 0.026 mg/L4h ^[2] | Eye: adverse effect observed (irritating) ^[1] | | |
| | Oral (Rat) LD50: 1530 mg/kg ^[2] | Skin (rabbit):595 mg/24h - SEVERE | | |
| | | Skin: adverse effect observed (corrosive) ^[1] | | |
| | TOXICITY | IRRITATION | | |
| nickel(II) sulfate | Oral (Rat) LD50: 264 mg/kg ^[2] | Eye: no adverse effect observed (not irritating) $^{[1]}$ | | |
| | | Skin: adverse effect observed (irritating) ^[1] | | |
| | TOXICITY | IRRITATION | | |
| water | Oral (Rat) LD50: >90000 mg/kg ^[2] | Not Available | | |
| Legend: | Value obtained from Europe ECHA Registered Substace specified data extracted from RTECS - Register of Toxice | ances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise Effect of chemical Substances | | |
| PRESTO STAINLESS BLACK | Laboratory (in vitro) and animal studies show, exposure of producing mutation. | to the material may result in a possible risk of irreversible effects, with the possibility | | |
| | The material may produce moderate eye irritation leadin conjunctivitis. | g to inflammation. Repeated or prolonged exposure to irritants may produce | | |
| FLUOBORIC ACID | The material may produce respiratory tract irritation, and | result in damage to the lung including reduced lung function. repeated exposure and may produce on contact skin redness, swelling, the . | | |
| COPPER SULFATE, PENTAHYDRATE | for copper and its compounds (typically copper chloride): Acute toxicity: There are no reliable acute oral toxicity results available. In an acute dermal toxicity study (OECD TG 402), one group of 5 male rats and 5 groups of 5 female rats received doses of 1000, 1500 and 2000 mg/kg bw via dermal application for 24 hours. The LD50 values of copper monochloride were 2,000 mg/kg bw or greater for male (no deaths observed) and 1,224 mg/kg bw for female. Four females died at both 1500 and 2000 mg/kg bw, and one at 1,000 mg/kg bw. Symptom of the hardness of skin, an exudation of hardness site, the formation of scar and reddish changes were observed on application sites in all treated animals. Skin inflammation and injury were also noted. In addition, a reddish or black urine was observed in females at 2,000, 1,500 and 1,000 mg/kg bw. | | | |
| PHOSPHORIC ACID | phosphoric acid (85%) The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration. | | | |
| NICKEL(II) SULFATE | WARNING : IARC Cancer Review - Human Sufficient Evidence. | | | |
| PRESTO STAINLESS BLACK & NICKEL(II) SULFATE | 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. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested. 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. | | | |
| PRESTO STAINLESS BLACK & FLUOBORIC ACID & PHOSPHORIC ACID & WATER | No significant acute toxicological data identified in literature search. | | | |
| PRESTO STAINLESS BLACK & COPPER SULFATE, PENTAHYDRATE | For copper sulfate Copper sulfate is corrosive. Side effects are diverse and multi-systemic, and include severe gastrointestinal symptoms and signs, metallic taste in the mouth, burning pain in the chest, headache, sweating, shock and damage to brain, liver and kidneys. It has been reported as a cause of human suicide. On exposure, it can cause dose dependent damage to the skin and eye, also, eczema and allergic reactions. Long term effects can lead to anaemia and degenerative changes and are more likely in individuals with Wilson's disease, a condition which causes excessive absorption and storage of copper. It has adverse effects on reproduction and fertility as well as cancer and embryo toxic effects. Although it is excreted in the faeces, there is residual accumulation the liver, brain, heart, kidney and muscles. | | | |
| PRESTO STAINLESS BLACK & FLUOBORIC ACID | Goitrogenic: Goitrogens are substances that suppress the function of the thyroid gland by interfering with iodine uptake, which can, as a result, cause an enlargement of the thyroid (a goitre). Goitrogens include: - Vitexin, a flavonoid, which inhibits thyroid peroxidase, contributing to goitre - Thiocyanate and perchlorate, which decrease iodide uptake by competitive inhibition and consequently increase release of TSH from the pituitary gland - Lithium, which inhibits thyroid hormone release - Certain foods, such as soy and millet (containing vitexins) and vegetables in the genus Brassica (which includes broccoli, Brussels sprouts, | | | |
| | cabbage, cauliflower and horseradish). | | | |
| PRESTO STAINLESS BLACK | cabbage, cauliflower and horseradish) Caffeine (found in coffee, tea, cola and chocolate), which | | | |

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PHOSPHORIC ACID & NICKEL(II) SULFATE

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. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.

FLUOBORIC ACID & PHOSPHORIC ACID

For acid mists, aerosols, vapours

Test results suggest that eukaryotic cells are susceptible to genetic damage when the pH falls to about 6.5. Cells from the respiratory tract have not been examined in this respect. Mucous secretion may protect the cells of the airway from direct exposure to inhaled acidic mists (which also protects the stomach lining from the hydrochloric acid secreted there).

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

Legend:

🗶 – Data either not available or does not fill the criteria for classification

Data available to make classification

SECTION 12 Ecological information

Toxicity

| | Endpoint | Test Duration (hr) | Species | Value | Source |
|------------------------------|------------------|--------------------|-------------------------------|-----------------------|-----------------|
| PRESTO STAINLESS BLACK | Not Available | Not Available | Not Available | Not Available | Not Availabl |
| | Endpoint | Test Duration (hr) | Species | Value | Sourc |
| | NOEC(ECx) | 0.08h | Algae or other aquatic plants | 0.006mg/L | 4 |
| | EC50 | 72h | Algae or other aquatic plants | 13.969- 28.027mg/L | 4 |
| selenious acid | EC50 | 96h | Algae or other aquatic plants | 16.342- 37.85mg/L | 4 |
| | EC50 | 48h | Crustacea | 1.12mg/L | 2 |
| | LC50 | 96h | Fish | 0.62mg/l | 4 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | LC50 | 96h | Fish | 2600mg/l | 2 |
| fluoboric acid | EC50 | 72h | Algae or other aquatic plants | >100mg/l | 2 |
| | EC50 | 48h | Crustacea | >100mg/l | 2 |
| | NOEC(ECx) | 72h | Algae or other aquatic plants | 100mg/l | 2 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | EC50(ECx) | 96h | Crustacea | 0.001mg/L | 5 |
| copper sulfate, pentahydrate | EC50 | 72h | Algae or other aquatic plants | 0.8mg/L | 5 |
| ., ., ., | EC50 | 48h | Crustacea | 0.003mg/L | 5 |
| | LC50 | 96h | Fish | 0.073mg/L | 4 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | NOEC(ECx) | 72h | Algae or other aquatic plants | <7.5mg/l | 2 |
| uhaauharia aaid | EC50 | 72h | Algae or other aquatic plants | 77.9mg/l | 2 |
| phosphoric acid | EC50 | 48h | Crustacea | >100mg/l | 2 |
| | LC50 | 96h | Fish | 67.94- 113.76mg/L | 4 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | ErC50 | 72h | Algae or other aquatic plants | 0.75mg/l | 1 |
| | NOEC(ECx) | 72h | Algae or other aquatic plants | 0.32mg/l | 1 |
| | BCF | 1008h | Fish | <3 | 7 |
| nickel(II) sulfate | EC50 | 72h | Algae or other aquatic plants | 0.75mg/l | 1 |
| | EC50 | 96h | Algae or other aquatic plants | 0.008mg/L | 2 |
| | EC50 | 48h | Crustacea | 1mg/l | 1 |
| | LC50 | 96h | Fish | 0.282- 0.815mg/L | 4 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| water | Not | Not Available | Not Available | Not | Not |

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Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 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

On the basis of available evidence concerning either toxicity, persistence, potential to accumulate and or observed environmental fate and behaviour, the material may present a danger, immediate or long-term and /or delayed, to the structure and/ or functioning of natural ecosystems.

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.

The influence of several anions on the toxicity of ionic liquids was analysed for the green algae, Pseudokirchneriella subcapitata. This green algae reacted most sensitively to hexafluoroantimonate and less to chloride to chloride and bromide. Additionally the hydrolysis of the fluoride anions was investigated. As expected, an increasing toxicity was observed, but the relatively short test duration of 96 hours was not sufficient to enhance the toxicity of the test solutions (owing to the hydrolytic process of generating fluoride), but a 6 month old stock solution clearly exhibited toxicity. Hydrolysis occurred most for hexafluoroantimonate, less for tetrafluoroborate and not at all for hexafluorophosphate under the applied conditions.

For Copper Sulfate:

Terrestrial Fate: Soil - If released to soil, copper sulfate may leach to groundwater and may partially oxidize or bind to humic materials, clay or hydrous oxides of iron and manganese. Since copper is an element, it will persist indefinitely. Copper is bound or adsorbed, to organic materials, and to clay and mineral surfaces. The degree of adsorption to soils depends on the acidity or alkalinity of the soil. Copper sulfate is one of the more mobile metals in soil; however, its leaching potential is low in all but sandy soils. When applied with irrigation water, copper sulfate does not accumulate in the surrounding soils; however, some 60% is deposited in the sediments at the bottom of the irrigation ditch, where it becomes adsorbed to clay, mineral, and organic particles. Copper compounds also settle out of solution

Atmospheric Fate - Copper is unlikely to accumulate in the atmosphere due to a short residence time for airborne copper aerosols. Airborne coppers, however, may be transported over large distances. Air Quality Standards: no data available.

Aquatic Fate: Toxicity of copper is affected by pH and hardness of water. Total copper is rarely useful as a predictor of toxicity. In natural sea water, more than 98% of copper is organically bound and in river waters a high percentage is often organically bound, but the actual percentage depends on the river water and its pH. Ecotoxicity: Copper accumulates significantly in the food chain.

Tetrafluoroborate anions are not water-stable compounds since they hydrolyse under all of the conditions tested and the hydrolysis extent is markedly dependent on the temperature

Industrial wastewater containing tetrafluoroborate (BF4-) may be treated with an aluminum compound typically aluminium chloride) to decompose BF4-. If further treatment is deemed necessary, a calcium compound is added to precipitate fluoride. After the precipitate is separated, a soluble aluminum compound is added to the supernatant to precipitate the aluminum hydroxide. Boron is then removed with the aluminum hydroxide sludge.

The reaction of tetrafluoroborate with aluminum is faster with lower pH, higher water temperature, and higher Al/T-F (aluminum/total fluoride) mole ratio.

For copper: Ecotoxicity - Significant effects are expected on various species of microalgae, some species of macroalgae, and a range of invertebrates, including crustaceans, gastropods and sea urchins. Copper is moderately toxic to crab and their larvae and is highly toxic to gastropods (mollusks, including oysters, mussels and clams). In fish, the acute lethal concentrations of copper depends both on test species and exposure conditions. Waters with high concentrations of copper can have significant effects on diatoms and sensitive invertebrates, notably cladocerans (water fleas). Most taxonomic groups of macroalgae and invertebrates will be severely affected. For Inorganic Sulfate:

Environmental Fate - Sulfates can produce a laxative effect at concentrations of 1000 - 1200 mg/liter, but no increase in diarrhea, dehydration or weight loss. The presence of sulfate in drinking-water can also result in a noticeable taste. Sulfate may also contribute to the corrosion of distribution systems. No health-based guideline value for sulfate in drinking water is proposed.

Atmospheric Fate: Sulfates are removed from the air by both dry and wet deposition processes. Wet deposition processes including rain-out (a process that occurs within the clouds) and washout (removal by precipitation below the clouds) which contribute to the removal of sulfate from the atmosphere.

Terrestrial Fate: Soil - In soil, the inorganic sulfates can adsorb to soil particles or leach into surface water and groundwater.

For Copper: Typical foliar levels of copper are: Uncontaminated soils (0.3-250 mg/kg); Contaminated soils (150-450 mg/kg); Mining/smelting soils (6.1-25 mg/kg80 mg/kg300 mg/kg).

Terrestrial Fate: Plants - Generally, vegetation reflects soil copper levels in its foliage. This is dependent upon the bioavailability of copper and the physiological requirements of species concerned. Crops are often more sensitive to copper than the native flora. Soil: In soil, copper levels are raised by application of fertilizer, fungicides, from deposition of highway dusts and from urban, mining and industrial sources. Chronic and or acute effects on sensitive species occur as a result of human activities such as copper fertilizer addition and addition of sludge. When soil levels exceed 150 mg Cu/kg, native and agricultural species show chronic effects.
For Fluorides: Small amounts of fluoride have beneficial effects however; excessive intake over long periods may cause dental and/or skeletal fluorosis. Fluorides are absorbed

by humans following inhalation of workplace and ambient air that has been contaminated, ingestion of drinking water and foods and dermal contact. Populations living in areas with high fluoride levels in groundwater may be exposed to higher levels of fluorides in their drinking water or in beverages prepared with the water. Among these populations, outdoor labourers, people living in hot climates, and people with excessive thirst will generally have the greatest daily intake of fluorides because they consume greater amounts

Atmospheric Fate: Both hydrogen fluoride and particulate fluorides will be transported in the atmosphere and deposited on land or water by wet and dry deposition. Non-volatile inorganic fluoride particulates are removed from the atmosphere via condensation or nucleation processes. Fluorides adsorbed on particulate matter in the atmosphere are generally stable and are not readily hydrolyzed, although they may be degraded by radiation if they persist in the atmosphere.

Microbial methylation plays important roles in the biogeochemical cycling of the metalloids and possibly in their detoxification. Many microorganisms (bacteria, fungi, and yeasts) and animals are now known to biomethylate arsenic, forming both volatile (e.g., methylarsines) and nonvolatile (e.g., methylarsonic acid and dimethylarsinic acid) compounds. Antimony and bismuth, also undergo biomethylation to some extent. Trimethylstibine formation by microorganisms is now well established, but this process apparently does not occur in animals. Formation of trimethylbismuth by microorganisms has been reported in a few cases for Boron and Borates

Environmental Fate - Boron is generally found in nature bound to oxygen and is never found as the free element. As an element, boron itself cannot be degraded in the environment, however; it may undergo various reactions that change the form of boron (e.g., precipitation, polymerization, and acid-base reactions) depending on conditions such as its concentration in water and pH. As boron is a natural component of the environment, individuals will have some exposure from foods and drinking water Atmospheric Fate: Atmospheric boron may be in the form of particulate matter or aerosols as borides, boron oxides, borates, organoboron compounds, trihalide boron compounds, or borazines. Boron and borates will probably be removed from the atmosphere by precipitation and dry deposition. The half-life of airborne particles is usually on the order of days, depending on the size of the particle and atmospheric conditions.

Aquatic Fate: Borates are relatively soluble in water.

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.

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

Terrestrial Fate: Water solubility and bioavailability is affected by soil pH; decrease in pH generally mobilizes nickel, thus acid rain can mobilize nickel from the soil and increase nickel concentrations in ground water. Soil Guidelines - Dutch Criteria: 35 mg/kg (target) 210 mg/kg (intervention).

Ecotoxicity: Nickel bioaccumulates in the food chain but is not bioconcentrated.

Feeding of plants from ferous rocks containing selenium has caused toxic effects in livestock. Environmental redistribution of selenium due to man's activity include copper smelting; lead, zinc, phosphate, and uranium mining; manufacture of glass ceramics and pigments; and burning of fuels. Early concerns about selenium toxicity have given way to recognition of certain beneficial properties, such as anti-carcinogenic properties, and offering protection against the toxicity of heavy metals such as cadmium, mercury and silver. Sediment micro-organisms produce dimethyl selenide and dimethyl diselenide from both inorganic and organic sources and contribute to its biogeochemical cycling. Bacteria and cyanobacteria have two possible mechanisms for the uptake and transformation of selenate. Selenates are reduced to elemental selenium during uptake, and soluble selenium is transformed into volatile alkyl selenium compounds. Aquatic organisms can convert selenium to both inert and soluble forms. Prevent, by any means available, spillage from entering drains or water courses.

DO NOT discharge into sewer or waterways

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|------------------------------|-------------------------|------------------|
| fluoboric acid | LOW | LOW |
| copper sulfate, pentahydrate | HIGH | HIGH |
| phosphoric acid | HIGH | HIGH |

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

Bioaccumulative potential

| Ingredient | Bioaccumulation |
|------------------------------|------------------------|
| fluoboric acid | LOW (LogKOW = 0.2166) |
| copper sulfate, pentahydrate | LOW (LogKOW = -2.2002) |
| phosphoric acid | LOW (LogKOW = -0.7699) |
| nickel(II) sulfate | LOW (BCF = 31) |

Mobility in soil

| Ingredient | Mobility |
|------------------------------|-----------------------|
| fluoboric acid | LOW (Log KOC = 48.64) |
| copper sulfate, pentahydrate | LOW (Log KOC = 6.124) |
| phosphoric acid | HIGH (Log KOC = 1) |
| nickel(II) sulfate | LOW (Log KOC = 6.124) |

SECTION 13 Disposal considerations

Waste treatment methods

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

Otherwise:

- If container can not 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
- ▶ Reuse
- Recycling
- ▶ Disposal (if all else fails)

Product / Packaging disposal

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

- 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.
- ▶ Treat and neutralise at an approved treatment plant. Treatment should involve: Neutralisation with soda-ash or soda-lime followed 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 with 5% aqueous sodium hydroxide or soda ash, followed by water. Observe all label safeguards until containers are cleaned and destroyed.

SECTION 14 Transport information

Labels Required



Marine Pollutant



HAZCHEM

2X

Land transport (ADG)

| 14.1. UN number or ID number | 3264 | | |
|----------------------------------|---|------------------|--|
| 14.2. UN proper shipping name | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (contains fluoboric acid, selenious acid and phosphoric acid) | | |
| 14.3. Transport hazard class(es) | Class Subsidiary Hazard | 8 Not Applicable | |
| 14.4. Packing group | III | | |

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| 14.5. | Environmental hazard | Environmentally hazardou | ıs | | | |
|-----------|------------------------------|---|------------|----------------|---------|--|
| 14.6 | Special precautions for | Special provisions 2 | 23 274 | | | |
| | user | Limited quantity 5 | L | | | |
| Air tra | ansport (ICAO-IATA / DGR | 2) | | | | |
| 14.1. | UN number | 3264 | | | | |
| 14.2. | UN proper shipping name | Corrosive liquid, acidic, inorganic, n.o.s. * (contains fluoboric acid, selenious acid and phosphoric acid) | | | | |
| | | ICAO/IATA Class | | 8 | | |
| 14.3. | Transport hazard class(es) | ICAO / IATA Subsidiary | Hazard | Not Applicable | | |
| 0.000(00) | ERG Code | | 8L | | | |
| 14.4. | Packing group | III | | | | |
| 14.5. | Environmental hazard | Environmentally hazardous | | | | |
| | | Special provisions | | | A3 A803 | |
| | | Cargo Only Packing Instructions | | | 856 | |
| | | Cargo Only Maximum Q | Qty / Pack | | 60 L | |
| 14.6 | Special precautions for user | Passenger and Cargo P | Packing In | structions | 852 | |
| | นอต | | | | | |

5 L

Y841

1 L

Sea transport (IMDG-Code / GGVSee)

| oca manaport (imbo ocac) | | | | |
|------------------------------------|--|---|--|--|
| 14.1. UN number | 3264 | 3264 | | |
| 14.2. UN proper shipping name | CORROSIVE LIQUID, | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (contains fluoboric acid, selenious acid and phosphoric acid) | | |
| 14.3. Transport hazard class(es) | IMDG Class IMDG Subsidiary Ha | 8 azard Not Applicable | | |
| 14.4. Packing group | III | | | |
| 14.5 Environmental hazard | Marine Pollutant | | | |
| 14.6. Special precautions for user | EMS Number Special provisions Limited Quantities | F-A, S-B 223 274 5 L | | |

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

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Passenger and Cargo Maximum Qty / Pack

Passenger and Cargo Limited Quantity Packing Instructions

Passenger and Cargo Limited Maximum Qty / Pack

| Product name | Group | |
|------------------------------|---------------|--|
| selenious acid | Not Available | |
| fluoboric acid | Not Available | |
| copper sulfate, pentahydrate | Not Available | |
| phosphoric acid | Not Available | |
| nickel(II) sulfate | Not Available | |
| water | Not Available | |

14.7.3. Transport in bulk in accordance with the IGC Code

| Product name | Ship Type |
|------------------------------|---------------|
| selenious acid | Not Available |
| fluoboric acid | Not Available |
| copper sulfate, pentahydrate | Not Available |
| phosphoric acid | Not Available |
| nickel(II) sulfate | Not Available |
| water | Not Available |

SECTION 15 Regulatory information

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

selenious acid is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

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International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

fluoboric acid is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

copper sulfate, pentahydrate is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

Australian Inventory of Industrial Chemicals (AIIC)

phosphoric acid is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australian Inventory of Industrial Chemicals (AIIC)

nickel(II) sulfate is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

water is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

Additional Regulatory Information

Not Applicable

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National Inventory Status

| National Inventory | Status |
|---|--|
| Australia - AIIC / Australia Non- Industrial Use | Yes |
| Canada - DSL | Yes |
| Canada - NDSL | No (selenious acid; fluoboric acid; copper sulfate, pentahydrate; phosphoric acid; nickel(II) sulfate; water) |
| China - IECSC | Yes |
| Europe - EINEC / ELINCS / NLP | Yes |
| Japan - ENCS | Yes |
| Korea - KECI | Yes |
| New Zealand - NZIoC | Yes |
| Philippines - PICCS | Yes |
| USA - TSCA | Yes |
| Taiwan - TCSI | Yes |
| Mexico - INSQ | Yes |
| Vietnam - NCI | Yes |
| Russia - FBEPH | Yes |
| Legend: | Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration. |

SECTION 16 Other information

| Revision Date | 24/05/2024 |
|---------------|------------|
| Initial Date | 24/05/2024 |

Other information

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
- ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- ▶ LOAEL: Lowest Observed Adverse Effect Level
- ▶ TLV: Threshold Limit Value
- ▶ LOD: Limit Of Detection

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▶ OTV: Odour Threshold Value

▶ BCF: BioConcentration Factors

▶ BEI: Biological Exposure Index

- ▶ DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ AIIC: Australian Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List
- ▶ NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European Inventory of Existing Commercial chemical Substances
 ELINCS: European List of Notified Chemical Substances
 NLP: No-Longer Polymers

- ▶ ENCS: Existing and New Chemical Substances Inventory
- ▶ KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
 PICCS: Philippine Inventory of Chemicals and Chemical Substances
 TSCA: Toxic Substances Control Act
- ► TCSI: Taiwan Chemical Substance Inventory
- ▶ INSQ: Inventario Nacional de Sustancias Químicas
- ▶ NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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