

Ballance Agri-Nutrients

| Ballance Agri-Nutrients | Chemwatch Hazard Alert Code: 2 |
|------------------------------------------------------------------------------------------------------|--------------------------------|
| Chemwatch: 16-3110 | Issue Date: 18/01/2023 |
| Version No: 8.1 | Print Date: 18/01/2023 |
| Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017 | L.GHS.NZL.EN.E |
| | |

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

Product Identifier

| Product name | 15% Potash Sulphur Super |
|-------------------------------|--------------------------|
| Chemical Name | Not Applicable |
| 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 | Fertiliser. |
|--------------------------|-------------|
|--------------------------|-------------|

Details of the manufacturer or supplier of the safety data sheet

| Registered company name | Ballance Agri-Nutrients | |
|-------------------------|--------------------------------------------|--|
| Address | 61 Hewletts Rd Mount Maunganui New Zealand | |
| Telephone | +64 800 222 090 | |
| Fax | Not Available | |
| Website | www.ballance.co.nz | |
| Email | customerservices-mount@ballance.co.nz | |

Emergency telephone number

| Association / Organisation | CHEMCALL |
|-----------------------------------|------------------------------------------------------------|
| Emergency telephone numbers | Freephone: 0800 CHEMCALL (0800 243 622) (24 Hours/ 7 Days) |
| Other emergency telephone numbers | Not Available |

SECTION 2 Hazards identification

Classification of the substance or mixture

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Not regulated for transport of Dangerous Goods.

Chemwatch Hazard Ratings

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

| Classification ^[1] | Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2 |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Legend: | 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI |
| Determined by Chemwatch using GHS/HSNO criteria | 6.3A, 6.4A, 6.9B |

| Hazard pictogram(s) | (!) |
|---------------------|-----|
| | |

Warning

Signal word

Hazard statement(s)

| H315 | Causes skin irritation. | |
|------|-----------------------------------------------------------------------|--|
| H319 | Causes serious eye irritation. | |
| H373 | 73 May cause damage to organs through prolonged or repeated exposure. | |

Precautionary statement(s) Prevention

| P260 | Do not breathe dust/fume. | |
|------|---------------------------------------------------------------------------------------|--|
| P280 | P280 Wear protective gloves, protective clothing, eye protection and face protection. | |
| P264 | Wash all exposed external body areas thoroughly after handling. | |

Precautionary statement(s) Response

| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. | |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|--|
| P314 | Get medical advice/attention if you feel unwell. | |
| P337+P313 | If eye irritation persists: Get medical advice/attention. | |
| P302+P352 | IF ON SKIN: Wash with plenty of water and soap. | |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. | |
| P362+P364 | Take off contaminated clothing and wash it before reuse. | |

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501

501 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 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------|
| 7778-18-9 | 30-60 | calcium sulfate |
| 7758-23-8 | 10-30 | calcium phosphate, monobasic |
| 7447-40-7 | 10-30 | potassium chloride |
| 7704-34-9. | 1-10 | sulfur |
| 7789-75-5 | 1-10 | calcium fluoride |
| 7664-38-2 | <1 | phosphoric acid |
| Not Available | balance | Ingredients determined not to be hazardous |
| Legend: 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 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

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| Description of first aid measur | es |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact | If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, 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 fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. |
| Ingestion | 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. Seek medical advice. |

Indication of any immediate medical attention and special treatment needed

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination).

For poisons (where specific treatment regime is absent):

BASIC TREATMENT

- _____
- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 L/min.
 Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for pullionary beden
 Monitor and treat, where necessary, for shock.
- Anticipate seizures.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

ADVANCED TREATMENT

- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- + Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

BRONSTEIN, A.C. and CURRANCE, P.L.

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994 Treat symptomatically.

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 + Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Advice for firefighters

| Advice for menginers | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. |
| Fire/Explosion Hazard | Solid which exhibits difficult combustion or is difficult to ignite. Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn rapidly and fiercely if ignited; once initiated larger particles up to 1400 microns diameter will contribute to the propagation of an explosion. A dust explosion may release large quantities of gaseous products; this in turn creates a subsequent pressure rise of explosive force capable of damaging plant and buildings and injuring people. Usually the initial or primary explosion takes place in a confined space such as plant or machinery, and can be of sufficient force to damage or rupture the plant. If the shock wave from the primary explosion enters the surrounding area, it will disturb any settled dust layers, forming a second dust cloud, and often initiate a much larger secondary explosion. Decomposes on heating and produces: carbon monoxide (CO) carbon dioxide (CO2) hydrogen fluoride hydrogen fluoride hydrogen fluoride nitrogen oxides (POx) sulfur oxides (SOx) other pyrolysis products typical of burning organic material. May emit corrosive fumes. |

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 | |
|--------------|--|

Clean up all spills immediately.
Avoid breathing dust and contact with skin and eyes.

| | Wear protective clothing, gloves, safety glasses and dust respirator. |
|--------------|-----------------------------------------------------------------------------------------------|
| | Use dry clean up procedures and avoid generating dust. |
| | Sweep up, shovel up or |
| | Vacuum up (consider explosion-proof machines designed to be grounded during storage and use). |
| | Place spilled material in clean, dry, sealable, labelled container. |
| | Moderate hazard. |
| | CAUTION: Advise personnel in area. |
| | Alert Emergency Services and tell them location and nature of hazard. |
| Major Spills | Control personal contact by wearing protective clothing. |
| | Prevent, by any means available, spillage from entering drains or water courses. |
| | Recover product wherever possible. |
| | |

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

SECTION 7 Handling and storage

| | Avoid all personal contact, including inhalation. |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Wear protective clothing when risk of exposure occurs. |
| | ▶ Use in a well-ventilated area. |
| | Prevent concentration in hollows and sumps. |
| | DO NOT enter confined spaces until atmosphere has been checked. |
| | DO NOT allow material to contact humans, exposed food or food utensils. |
| Safe handling | Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions) Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame. Establish good housekeeping practices. Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds. Use continuous suction at points of dust generation to capture and minimise the accumulation of dusts. Particular attention should be given |
| | to overhead and hidden horizontal surfaces to minimise the probability of a "secondary" explosion. |
| | Store in original containers. |
| Other information | Keep containers securely sealed. Store in a cool, dry area protected from environmental extremes. |
| | 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. |

Conditions for safe storage, including any incompatibilities

| Suitable container | Polyethylene or polypropylene container. Check all containers are clearly labelled and free from leaks. |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Storage incompatibility | Avoid reaction with oxidising agents Avoid strong acids, bases. |
| | |

X — Must not be stored together

0 — May be stored together with specific preventions

х

+ — May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

SECTION 8 Exposure controls / personal protection

+

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|---------------------------------------------------|---------------------|---------------------------------------------|--------------|------------------|------------------|--------------------------------------------------------------------|
| New Zealand Workplace Exposure Standards (WES) | calcium sulfate | Calcium sulphate (Gypsum, Plaster of Paris) | 10 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | sulfur | Respirable dust (not otherwise classified) | 3 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | sulfur | Inhalable dust (not otherwise classified) | 10 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | calcium fluoride | Fluorides, as F | 2.5 mg/m3 | Not Available | Not Available | (bio) - Exposure can also be estimated by biological monitoring |
| New Zealand Workplace Exposure Standards (WES) | phosphoric acid | Phosphoric acid | 1 mg/m3 | Not Available | Not Available | Not Available |

| Ingredient | TEEL-1 | TEEL-2 | TEEL-3 |
|------------------|----------|-----------|-------------|
| calcium fluoride | 15 mg/m3 | 170 mg/m3 | 1,000 mg/m3 |

| Ingredient | TEEL-1 | TEEL-2 | | TEEL-3 |
|-------------------------------|---------------|---------------|---------------|---------------|
| phosphoric acid | Not Available | Not Available | | Not Available |
| Ingredient | Original IDLH | | Revised IDLH | |
| calcium sulfate | Not Available | | Not Available | |
| calcium phosphate, monobasic | Not Available | | Not Available | |
| potassium chloride | Not Available | | Not Available | |
| sulfur | Not Available | | Not Available | |
| calcium fluoride | 250 mg/m3 | | Not Available | |
| phosphoric acid | 1,000 mg/m3 | | Not Available | |
| Occupational Exposure Banding | | | | |

| Ingredient | Occupational Exposure Band Rating | Occupational Exposure Band Limit |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| calcium phosphate, monobasic | E | ≤ 0.01 mg/m³ |
| Notes: | Occupational exposure banding is a process of assigning chemicals into s adverse health outcomes associated with exposure. The output of this pro range of exposure concentrations that are expected to protect worker hea | cess is an occupational exposure band (OEB), which corresponds to a |

MATERIAL DATA

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. |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal protection | |
| Eye and face protection | Safety glasses with side shields. Chemical goggles. 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. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. |
| Skin protection | See Hand protection below |
| 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. Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present. polychloroprene. nitrile rubber. butyl rubber. polyvinyl chloride. |
| Body protection | See Other protection below |
| Other protection | Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. Eye wash unit. |

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:

15% Potash Sulphur Super

| Material | СРІ |
|-------------------|-----|
| NEOPRENE | A |
| BUTYL | С |
| NAT+NEOPR+NITRILE | С |
| NATURAL RUBBER | С |
| NATURAL+NEOPRENE | С |

Respiratory protection

Type B-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. 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 | B-AUS P2 | - | B-PAPR-AUS / Class 1 P2 |
| up to 50 x ES | - | B-AUS / Class 1 P2 | - |
| up to 100 x ES | - | B-2 P2 | B-PAPR-2 P2 ^ |

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15% Potash Sulphur Super

| 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. ^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

 The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).

Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.

 Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.

 Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

· Use approved positive flow mask if significant quantities of dust becomes airborne.

· Try to avoid creating dust conditions.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

| Appearance | Gray, brown, white, yellow or red particles; insoluble in water. | | |
|-------------------------------------------------|------------------------------------------------------------------|-----------------------------------------|----------------|
| Physical state | Divided Solid | Relative density (Water = 1) | 1-1.3 |
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Applicable |
| pH (as supplied) | Not Applicable | Decomposition temperature (°C) | Not Available |
| Melting point / freezing point (°C) | >130 | Viscosity (cSt) | Not Applicable |
| Initial boiling point and boiling range (°C) | Not Available | Molecular weight (g/mol) | Not Applicable |
| Flash point (°C) | Not Applicable | Taste | Not Available |
| Evaporation rate | Not Applicable | Explosive properties | Not Available |
| Flammability | Not Applicable | Oxidising properties | Not Available |
| Upper Explosive Limit (%) | Not Applicable | Surface Tension (dyn/cm or mN/m) | Not Applicable |
| Lower Explosive Limit (%) | Not Applicable | Volatile Component (%vol) | Not Applicable |
| Vapour pressure (kPa) | Not Applicable | Gas group | Not Available |
| Solubility in water | Immiscible | pH as a solution (1%) | Not Applicable |
| Vapour density (Air = 1) | Not Applicable | VOC g/L | Not Applicable |

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

The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Inhaled Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.

| Ingestion | The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern. | | |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Skin Contact | The material produces mild skin irritation; evidence exists, or practical experience predicts, that the material either • produces mild inflammation of the skin in a substantial number of individuals following direct contact, and/or • produces significant, but mild, inflammation when applied to the healthy intact skin of animals (for up to four hours), such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis. Irritation and skin reactions are possible with sensitive skin Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds 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 | Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur. | | |
| Chronic | Serious damage (clear functional disturbance or morphological change which may have toxicological significance) is likely to be caused by repeated or prolonged exposure. As a rule the material produces, or contains a substance which produces severe lesions. Such damage may become apparent following direct application in subchronic (90 day) toxicity studies or following sub-acute (28 day) or chronic (two-year) toxicity tests. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Long term exposure to high dust concentrations may cause changes in lung function (i.e. pneumoconiosis) caused by particles less than 0.5 micron penetrating and remaining in the lung. A prime symptom is breathlessness. Lung shadows show on X-ray. | | |
| | τοχιζιτγ | IRRITATION | |
| 15% Potash Sulphur Super | Not Available | Not Available | |
| | τοχιςιτγ | IRRITATION | |
| calcium sulfate | Inhalation(Rat) LC50: >3.26 mg/l4h ^[1] | Not Available | |
| | Oral (Rat) LD50; >1581 mg/kg ^[1] | | |
| | ΤΟΧΙΟΙΤΥ | IRRITATION | |
| calcium phosphate, | Dermal (rabbit) LD50: >7940 mg/kg ^[2] | Eye : Severe * [Monsanto] | |
| monobasic | Inhalation(Rat) LC50: >2.6 mg/l4h ^[1] | Eye: adverse effect observed (irreversible damage) ^[1] | |
| | Oral (Rat) LD50; 7100 mg/kg ^[2] | Skin: no adverse effect observed (not irritating) ^[1] | |
| | ΤΟΧΙΟΙΤΥ | IRRITATION | |
| potassium chloride | Oral (Rat) LD50; 2600 mg/kg ^[2] | Eye (rabbit): 500 mg/24h - mild | |
| | ΤΟΧΙΟΙΤΥ | IRRITATION | |
| | dermal (rat) LD50: >2000 mg/kg ^[1] | Eye (human): 8 ppm irritant | |
| sulfur | Inhalation(Rat) LC50: >5.43 mg/L4h ^[1] | Eye: no adverse effect observed (not irritating) ^[1] | |
| | Oral (Rat) LD50; >2000 mg/kg ^[1] | Skin: adverse effect observed (irritating) ^[1] | |
| | | Skin: no adverse effect observed (not irritating) ^[1] | |
| | ΤΟΧΙΟΙΤΥ | IRRITATION | |
| | dermal (rat) LD50: >905 mg/kg ^[1] | Not Available | |
| calcium fluoride | Inhalation(Rat) LC50: 0.29 mg/l4h ^[1] | | |
| | Oral (Rat) LD50; 101 mg/kg ^[1] | | |
| | ΤΟΧΙΟΙΤΥ | 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] | |
| Legend: | 1. Value obtained from Europe ECHA Registered Substand specified data extracted from RTECS - Register of Toxic E | ces - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise ffect of chemical Substances | |
| CALCIUM SULFATE | relate pneumoconiosis with chronic exposure to gypsum. C natural dusts of calcium sulfate except in the presence of s gypsum industry workers in Gacki, Poland. | s membrane, and respiratory system irritant. Early studies of gypsum miners did not Other studies in humans (as well as animals) showed no lung fibrosis produced by silica. However, a series of studies reported chronic nonspecific respiratory diseases in half-life in the lungs has been estimated as minutes. In four healthy men receiving | |

Continued...

| | calcium supplementation with calcium sulfate (CaSO4 Several feeding studies in pigs on the bioavailability o bioavailability of calcium in gypsum was similar to that 102%. | f calcium in calcium supplements, inc | luding gypsum, have been conducted. The | |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| POTASSIUM CHLORIDE | The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. | | | |
| PHOSPHORIC ACID | phosphoric acid (85%) No significant acute toxicologi for acid mists, aerosols, vapours Data from assays for genotoxic activity in vitro sugges Cells from the respiratory tract have not been examine exposure to inhaled acidic mists, just as mucous plays acid. In considering whether pH itself induces genotox stomach, in which gastric juice may be at pH 1-2 unde urine can range from <5 to > 7 and normally averages only a portion of the cell surface is subjected to the adreadily than in vitro. The material may produce severe irritation to the eye | at that eukaryotic cells are susceptible ed in this respect. Mucous secretion n s an important role in protecting the g tic events in vivo in the respiratory sys er fasting or nocturnal conditions, and 6.2. Furthermore, exposures to low p liverse conditions, so that perturbation | to genetic damage when the pH falls to about 6.5. nay protect the cells of the airways from direct astric epithelium from its auto-secreted hydrochloric stem, comparison should be made with the human with the human urinary bladder, in which the pH of oH in vivo differ from exposures <i>in vitro</i> in that, <i>in vivo</i> , of intracellular homeostasis may be maintained more | |
| | The material may produce severe skin irritation of the eye produce conjunctivitis. The material may produce severe skin irritation after p form of dermatitis is often characterised by skin redne Histologically there may be intercellular oedema of the unlikely, given the severity of response, but repeated of | prolonged or repeated exposure, and ss (erythema) thickening of the epide e spongy layer (spongiosis) and intrac | may produce a contact dermatitis (nonallergic). This rmis. cellular oedema of the epidermis. Prolonged contact is | |
| CALCIUM SULFATE & CALCIUM PHOSPHATE, MONOBASIC & CALCIUM FLUORIDE & PHOSPHORIC ACID | Asthma-like symptoms may continue for months or even known as reactive airways dysfunction syndrome (RA criteria for diagnosing RADS include the absence of p asthma-like symptoms within minutes to hours of a do airflow pattern on lung function tests, moderate to sev lymphocytic inflammation, without eosinophilia. RADS the concentration of and duration of exposure to the in result of exposure due to high concentrations of irritati | DS) which can occur after exposure to revious airways disease in a non-atop cumented exposure to the irritant. Off ere bronchial hyperreactivity on meth (or asthma) following an irritating inh ritating substance. On the other hand | o high levels of highly irritating compound. Main oic individual, with sudden onset of persistent her criteria for diagnosis of RADS include a reversible acholine challenge testing, and the lack of minimal alation is an infrequent disorder with rates related to I, industrial bronchitis is a disorder that occurs as a | |
| Acute Toxicity | × | Carcinogenicity | × | |
| Skin Irritation/Corrosion | × | Reproductivity | × | |
| Serious Eye Damage/Irritation | ✓ | STOT - Single Exposure | × | |
| Respiratory or Skin | × | STOT - Repeated Exposure | ~ | |
| sensitisation | · · | STOT - Repeated Exposure | • | |

SECTION 12 Ecological information

Toxicity

| | Endpoint | Test Duration (hr) | | Species | | Value | Source |
|---------------------------------|------------------|--------------------|----|-------------------------------|-------|------------------|------------------|
| 15% Potash Sulphur Super | Not Available | Not Available | | Not Available | | Not Available | Not Available |
| | Endpoint | Test Duration (hr) | | Species | | Value | Source |
| | NOEC(ECx) | 0.25h | | Fish | | 75mg/l | 4 |
| calcium sulfate | EC50 | 72h | | Algae or other aquatic plants | | >79mg/l | 2 |
| | LC50 | 96h | | Fish | | >79mg/l | 2 |
| | Endpoint | Test Duration (hr) | | Species | | Value | Source |
| calcium phosphate, monobasic | EC50(ECx) | 48h | | Crustacea | | >100mg/l | Not Availabl |
| | EC50 | 72h | | Algae or other aquatic plants | | >100mg/l | Not Availabl |
| | EC50 | 48h | | Crustacea | | >100mg/l | Not Availabl |
| | LC50 | 96h | | Fish | | >100mg/l | Not Availabl |
| | Endpoint | Test Duration (hr) | S | pecies | Value | • | Sourc |
| | NOEC(ECx) | 25h | Fi | sh | 9.319 | mg/L | 4 |
| n staasium aklasida | EC50 | 72h | AI | gae or other aquatic plants | >100 | mg/l | 2 |
| potassium chloride | EC50 | 48h | Сг | ustacea | 95.3- | 170.7mg/l | 4 |
| | LC50 | 96h | Fi | sh | 432.6 | 4-644.16mg/l | 4 |
| | EC50 | 96h | AI | gae or other aquatic plants | 894.6 | img/L | 4 |
| | Endpoint | Test Duration (hr) | | Species | | Value | Sourc |
| sulfur | NOEC(ECx) | 504h | | Crustacea | | >100mg/l | 2 |

| | LC50 | 96h | Fish | >207mg/L | 4 |
|------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------|--------|
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | NOEC(ECx) | 504h | Crustacea | 3.7mg/l | 2 |
| | EC50 | 72h | Algae or other aquatic plants | >100mg/l | |
| calcium fluoride | EC50 | 48h | Crustacea | 97mg/l | 2 |
| | LC50 | 96h | Fish | >=10.4<=150mg/l | 2 |
| | EC50 | 96h | Algae or other aquatic plants | 43mg/l | 2 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | NOEC(ECx) | 72h | Algae or other aquatic plants | <7.5mg/l | 2 |
| phosphoric acid | EC50 | 72h | Algae or other aquatic plants | 77.9mg/l | 2 |
| | EC50 | 48h | Crustacea | >100mg/l | 2 |
| | LC50 | 96h | Fish | 67.94-113.76mg/L | 4 |
| Legend: | Ecotox database | . IUCLID Toxicity Data 2. Europe ECHA Regist - Aquatic Toxicity Data 5. ECETOC Aquatic Ha n Data 8. Vendor Data | • | | |

DO NOT discharge into sewer or waterways.

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|--------------------|-------------------------|------------------|
| calcium sulfate | HIGH | HIGH |
| potassium chloride | HIGH | HIGH |
| sulfur | LOW | LOW |
| phosphoric acid | HIGH | HIGH |

Bioaccumulative potential

| Ingredient | Bioaccumulation |
|--------------------|------------------------|
| calcium sulfate | LOW (LogKOW = -2.2002) |
| potassium chloride | LOW (LogKOW = -0.4608) |
| sulfur | LOW (LogKOW = 0.229) |
| phosphoric acid | LOW (LogKOW = -0.7699) |

Mobility in soil

| Ingredient | Mobility |
|--------------------|-------------------|
| calcium sulfate | LOW (KOC = 6.124) |
| potassium chloride | LOW (KOC = 14.3) |
| sulfur | LOW (KOC = 14.3) |
| phosphoric acid | HIGH (KOC = 1) |

SECTION 13 Disposal considerations

Waste treatment methods

| Product / Packaging disposal | 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. 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. |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

Disposal Requirements

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous. Only dispose to the environment if a tolerable exposure limit has been set for the substance.

Only deposit the hazardous substance into or onto a landfill or sewage facility or incinerator, where the hazardous substance can be handled and treated appropriately.

SECTION 14 Transport information

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Labels Required

| Marine Pollutant | NO |
|------------------|----------------|
| HAZCHEM | Not Applicable |

Land transport (UN): 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

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

| Product name | Group |
|------------------------------|---------------|
| calcium sulfate | Not Available |
| calcium phosphate, monobasic | Not Available |
| potassium chloride | Not Available |
| sulfur | Not Available |
| calcium fluoride | Not Available |
| phosphoric acid | Not Available |

Transport in bulk in accordance with the ICG Code

| Product name | Ship Type |
|------------------------------|---------------|
| calcium sulfate | Not Available |
| calcium phosphate, monobasic | Not Available |
| potassium chloride | Not Available |
| sulfur | Not Available |
| calcium fluoride | Not Available |
| phosphoric acid | Not Available |

SECTION 15 Regulatory information

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

This substance is to be managed using the conditions specified in an applicable Group Standard

| HSR Number | Group Standard | |
|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--|
| HSR002571 | Fertilisers Subsidiary Hazard Group Standard 2020 | |
| Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit. | | |

New Zealand Workplace Exposure Standards (WES)

calcium sulfate is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

of Chemicals - Classification Data

| | calcium phosphate, monobasic is found on the following regulatory lists | |
|---|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| | New Zealand Approved Hazardous Substances with controls New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification | New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data |
| | of Chemicals | New Zealand Inventory of Chemicals (NZIoC) |
| | potassium chloride is found on the following regulatory lists | |
| | New Zealand Approved Hazardous Substances with controls | New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data |
| | New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals | New Zealand Inventory of Chemicals (NZIoC) |
| l | sulfur is found on the following regulatory lists | |
| | International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS) | New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data |
| | New Zealand Approved Hazardous Substances with controls | New Zealand Inventory of Chemicals (NZIoC) |
| | New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals | New Zealand Workplace Exposure Standards (WES) |
| l | calcium fluoride is found on the following regulatory lists | |
| | International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic | New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data |
| | New Zealand Approved Hazardous Substances with controls | New Zealand Inventory of Chemicals (NZIoC) |
| | New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals | New Zealand Workplace Exposure Standards (WES) |
| i | phosphoric acid is found on the following regulatory lists | |
| | New Zealand Approved Hazardous Substances with controls | New Zealand Inventory of Chemicals (NZIoC) |
| | New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals | New Zealand Workplace Exposure Standards (WES) |
| | New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification | |

Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

| Hazard Class | Quantities |
|--------------|----------------|
| | Not Applicable |

Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

| Class of substance | Quantities |
|--------------------|----------------|
| Not Applicable | Not Applicable |
| | |

Refer Group Standards for further information

Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

| Hazard Class | Gas (aggregate water capacity in mL) | Liquid (L) | Solid (kg) | Maximum quantity per package for each classification |
|----------------|--------------------------------------|----------------|----------------|------------------------------------------------------|
| Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |

Tracking Requirements

Not Applicable

National Inventory Status

| National Inventory | Status | |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Australia - AIIC / Australia Non-Industrial Use | Yes | |
| Canada - DSL | Yes | |
| Canada - NDSL | No (calcium sulfate; calcium phosphate, monobasic; potassium chloride; sulfur; phosphoric acid) | |
| China - IECSC | Yes | |
| Europe - EINEC / ELINCS / NLP | /es | |
| Japan - ENCS | lo (sulfur) | |
| 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 | 18/01/2023 |
|---------------|------------|
| Initial Date | 01/09/2008 |

SDS Version Summary

| Version | Date of Update | Sections Updated |
|---------|----------------|----------------------|
| 7.1 | 06/09/2022 | Classification, Name |
| 8.1 | 18/01/2023 | Name |

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 OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index 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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