

Neutrog Australia

Chemwatch Hazard Alert Code: 1

Issue Date: 23/12/2022 Print Date: 28/08/2024 S.GHS.AUS.EN

Chemwatch: **5256-28** Version No: **4.1** Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements

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

| Product identifier | | | | |
|--|--|--|--|--|
| Neutrog Sudden Impact for Roses - Liquid | | | | |
| Not Applicable | | | | |
| Not Available | | | | |
| Not Applicable | | | | |
| Not Available | | | | |
| | | | | |

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

Relevant identified uses Use according to manufacturer's directions.

Details of the manufacturer or supplier of the safety data sheet

| Registered company name | Neutrog Australia |
|-------------------------|---|
| Address | 288 Mine Road Kanmantoo SA 5252 Australia |
| Telephone | +61 8 8538 3500 |
| Fax | Not Available |
| Website | www.neutrog.com.au |
| Email | admin@neutrog.com.au |

Emergency telephone number

| Association / Organisation | Neutrog Australia | CHEMWATCH EMERGENCY RESPONSE (24/7) | | |
|-----------------------------------|----------------------------------|-------------------------------------|--|--|
| Emergency telephone numbers | +61 8 8538 3500 (Business Hours) | +61 1800 951 288 | | |
| Other emergency telephone numbers | 0409 728 738 (AH) | +61 3 9573 3188 | | |

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

| Poisons Schedule | Not Applicable |
|-------------------------------|---|
| Classification ^[1] | Serious Eye Damage/Eye Irritation Category 2B |
| 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) | Not Applicable | | |
|---------------------------------------|---|--|--|
| Signal word | Warning | | |
| Hazard statement(s) | | | |
| H320 | Causes eye irritation. | | |
| Precautionary statement(s) Prevention | | | |
| 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. P337+P313 If eye irritation persists: Get medical advice/attention.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name | |
|---------------|--|------------------------------|--|
| Not Available | 10-30 | Neutrog GOGO Juice | |
| 7783-20-2 | <10 | ammonium sulfate | |
| 7778-80-5 | <10 | potassium sulfate | |
| 7783-28-0 | <10 | diammonium phosphate | |
| 16731-55-8 | <10 | potassium metabisulfite | |
| 10043-52-4 | <1 | calcium chloride | |
| 7487-88-9 | <1 | magnesium sulfate, anhydrous | |
| 11138-66-2 | <1 | g <u>um xanthan</u> | |
| 7720-78-7 | <1 | ferrous sulfate anhydrous | |
| 7785-87-7 | <1 | manganese sulfate | |
| 7733-02-0 | <1 | zinc sulfate | |
| 7758-98-7 | <1 | copper sulfate | |
| 7732-18-5 | >60 | water | |
| Legend: | 1. Classified by Chernwatch; 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

| - | |
|--------------|--|
| Eye Contact | If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |
| Skin Contact | If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. |
| Inhalation | If 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. |
| 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 casuality can comfortably drink. Seek medical advice. |

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Both dermal and oral toxicity of manganese salts is low because of limited solubility of manganese. No known permanent pulmonary sequelae develop after acute manganese exposure. Treatment is supportive.

[Ellenhorn and Barceloux: Medical Toxicology]

In clinical trials with miners exposed to manganese-containing dusts, L-dopa relieved extrapyramidal symptoms of both hypo kinetic and dystonic patients. For short periods of time symptoms could also be controlled with scopolamine and amphetamine. BAL and calcium EDTA prove ineffective.

[Gosselin et al: Clinical Toxicology of Commercial Products.]

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 None known.

Advice for firefighters

- Fire Fighting
- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves in the event of a fire.

| | Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. |
|-----------------------|--|
| Fire/Explosion Hazard | Non combustible. Not considered a significant fire risk, however containers may burn. Decomposition may produce toxic fumes of: hydrogen chloride nitrogen oxides (NOx) phosphorus oxides (POx) sulfur oxides (SOx) metal oxides May emit poisonous fumes. May emit corrosive fumes. |
| HAZCHEM | Not Applicable |

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

| Minor Spills | Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. |
|--------------|---|
| Major Spills | Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. |

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. Prevent concentration in hollows and sumps. | | | |
| Other information | Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. | | | |

Conditions for safe storage, including any incompatibilities

| _ | |
|-------------------------|---|
| Suitable container | Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. |
| Storage incompatibility | Avoid reaction with oxidising agents |
| | |

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|------------------------------|---------------------------|-------------------------------------|---------|---------------|---------------|---------------|
| Australia Exposure Standards | ferrous sulfate anhydrous | Iron salts, soluble (as Fe) | 1 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | manganese sulfate | Manganese, dust & compounds (as Mn) | 1 mg/m3 | Not Available | Not Available | Not Available |

Emergency Limits

| Ingredient | TEEL-1 | TEEL-2 | TEEL-3 |
|------------------------------|-----------|-----------|-------------|
| ammonium sulfate | 13 mg/m3 | 140 mg/m3 | 840 mg/m3 |
| potassium sulfate | 20 mg/m3 | 220 mg/m3 | 1,300 mg/m3 |
| diammonium phosphate | 20 mg/m3 | 210 mg/m3 | 1,300 mg/m3 |
| potassium metabisulfite | 5.4 mg/m3 | 59 mg/m3 | 360 mg/m3 |
| calcium chloride | 16 mg/m3 | 170 mg/m3 | 1,100 mg/m3 |
| calcium chloride | 12 mg/m3 | 130 mg/m3 | 790 mg/m3 |
| calcium chloride | 13 mg/m3 | 140 mg/m3 | 850 mg/m3 |
| calcium chloride | 24 mg/m3 | 260 mg/m3 | 1,600 mg/m3 |
| magnesium sulfate, anhydrous | 20 mg/m3 | 220 mg/m3 | 1,300 mg/m3 |
| ferrous sulfate anhydrous | 8.2 mg/m3 | 41 mg/m3 | 250 mg/m3 |
| manganese sulfate | 8.2 mg/m3 | 14 mg/m3 | 430 mg/m3 |

| Ingredient | TEEL-1 | TEEL-2 | | TEEL-3 | |
|------------------------------|---------------|-----------|---------------|---------------|--|
| zinc sulfate | 27 mg/m3 | 170 mg/m3 | | 1,000 mg/m3 | |
| zinc sulfate | 15 mg/m3 | 97 mg/m3 | | 580 mg/m3 | |
| copper sulfate | 7.5 mg/m3 | 9.9 mg/m3 | | 59 mg/m3 | |
| Ingredient | Original IDLH | | Revised IDLH | | |
| Neutrog GOGO Juice | Not Available | | Not Available | | |
| ammonium sulfate | Not Available | | Not Available | | |
| potassium sulfate | Not Available | | Not Available | | |
| diammonium phosphate | Not Available | | Not Available | | |
| potassium metabisulfite | Not Available | | Not Available | Not Available | |
| calcium chloride | Not Available | | Not Available | | |
| magnesium sulfate, anhydrous | Not Available | | Not Available | | |
| gum xanthan | Not Available | | Not Available | | |
| ferrous sulfate anhydrous | Not Available | | Not Available | | |
| manganese sulfate | 500 mg/m3 | | Not Available | | |
| zinc sulfate | Not Available | | Not Available | | |
| copper sulfate | Not Available | | Not Available | | |
| water | Not Available | | Not Available | | |

Occupational Exposure Banding

| Ingredient | Occupational Exposure Band Rating | Occupational Exposure Band Limit | |
|-------------------------|---|----------------------------------|--|
| Neutrog GOGO Juice | E | ≤ 0.1 ppm | |
| ammonium sulfate | E | ≤ 0.01 mg/m³ | |
| diammonium phosphate | E | ≤ 0.01 mg/m³ | |
| potassium metabisulfite | E | ≤ 0.01 mg/m³ | |
| calcium chloride | E | ≤ 0.01 mg/m³ | |
| zinc sulfate | E | ≤ 0.01 mg/m³ | |
| copper sulfate | 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. |
|---|---|
| Individual protection measures, such as personal protective equipment | |
| Eye and face protection | Safety glasses with side shields. Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent] 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 |
| Hands/feet protection | Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. |
| Body protection | See Other protection below |
| Other protection | Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. |

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:

Neutrog Sudden Impact for Roses - Liquid

| Material | СРІ |
|----------------|-----|
| BUTYL | A |
| NEOPRENE | A |
| VITON | A |
| NATURAL RUBBER | С |
| PVA | 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.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

| Appearance | Liquid. | | |
|---|---------------|--|----------------|
| | | | |
| Physical state | Liquid | Relative density (Water = 1) | Not Available |
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Available |
| pH (as supplied) | Not Available | Decomposition temperature (°C) | Not Available |
| Melting point / freezing point (°C) | Not Available | Viscosity (cSt) | Not Available |
| Initial boiling point and boiling range (°C) | Not Available | Molecular weight (g/mol) | Not Applicable |
| Flash point (°C) | Not Available | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Not Available | Oxidising properties | Not Available |
| Upper Explosive Limit (%) | Not Available | Surface Tension (dyn/cm or mN/m) | Not Available |
| Lower Explosive Limit (%) | Not Available | Volatile Component (%vol) | Not Available |
| Vapour pressure (kPa) | Not Available | Gas group | Not Available |
| Solubility in water | Not Available | pH as a solution (1%) | Not Available |
| Vapour density (Air = 1) | Not Available | VOC g/L | Not Available |
| Heat of Combustion (kJ/g) | Not Available | Ignition Distance (cm) | Not Available |
| Flame Height (cm) | Not Available | Flame Duration (s) | Not Available |
| Enclosed Space Ignition Time Equivalent (s/m3) | Not Available | Enclosed Space Ignition Deflagration Density (g/m3) | Not Available |

SECTION 10 Stability and reactivity

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

SECTION 11 Toxicological information

Information on toxicological effects

| Inhaled | Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. |
|--------------|---|
| Ingestion | Accidental ingestion of the material may be damaging to the health of the individual. |
| Skin Contact | The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. |
| Eye | There is some evidence to suggest that this material can cause eye irritation and damage in some persons. |

| Chronic | There is some evidence that inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population. There is limited evidence that, skin contact with this product is more likely to cause a sensitisation reaction in some persons compared to the general population. | | | |
|---|---|---|--|--|
| Neutrog Sudden Impact for Roses - Liquid | TOXICITY Not Available | IRRITATION Not Available | | |
| Neutrog GOGO Juice | TOXICITY Not Available | IRRITATION Not Available | | |
| ammonium sulfate | TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: 2840 mg/kg ^[2] | IRRITATION Eye: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] | | |
| potassium sulfate | TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] | IRRITATION Eye: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] | | |
| diammonium phosphate | TOXICITY dermal (rat) LD50: >5000 mg/kg ^[1] Inhalation (Rat) LC50: >5 mg/l4h ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] | IRRITATION Eye: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] | | |
| potassium metabisulfite | TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: 1420 mg/kg ^[1] | IRRITATION Eye: adverse effect observed (irreversible damage) ^[1] Skin: adverse effect observed (irritating) ^[1] | | |
| calcium chloride | TOXICITY dermal (rat) LD50: 2630 mg/kg ^[2] Oral (Rabbit) LD50; 500-1000 mg/kg ^[1] | IRRITATION Eye (unknown): severe* [ICI] Eye: adverse effect observed (irritating) ^[1] Skin (unknown): moderate* Skin: no adverse effect observed (not irritating) ^[1] | | |
| magnesium sulfate, anhydrous | TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] | IRRITATION Eye: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] | | |
| gum xanthan | TOXICITY Not Available | IRRITATION Not Available | | |
| ferrous sulfate anhydrous | TOXICITY dermal (rat) LD50: >881 mg/kg ^[1] Inhalation (Rat) LC50: >0.3 mg/l4h ^[1] Oral (Rat) LD50: >139<558 mg/kg ^[1] | IRRITATION Eye: adverse effect observed (irritating) ^[1] Skin: adverse effect observed (irritating) ^[1] | | |
| manganese sulfate | TOXICITY Inhalation (Rat) LC50: >4.45 mg/l4h ^[1] Oral (Rat) LD50: 2150 mg/kg ^[2] | IRRITATION Skin: no adverse effect observed (not irritating) ^[1] | | |
| zinc sulfate | TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Oral (Mouse) LD50; 200 mg/kg ^[2] | IRRITATION Eye: adverse effect observed (irreversible damage) ^[1] Skin: no adverse effect observed (not irritating) ^[1] | | |
| copper sulfate | TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: 300 mg/kg ^[2] | IRRITATION Not Available | | |
| water | TOXICITY Oral (Rat) LD50: >90000 mg/kg ^[2] | IRRITATION Not Available | | |
| Legend: | 1. Value obtained from Europe ECHA Registered Substa | ances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless other | | |

Continued...

| AMMONIUM SULFATE | For ammonium sulfate: Acute toxicity: Ammonium sulfate has relatively low ac lung function. Animal testing has not shown ammoniu sensitization. Repeat dose toxicity: Testing in animals has not show | cute toxicity. In healthy humans, inha m sulfate to cause irritation to the ski n any chronic toxic effects, except fo | ling high concentrations caused mild reduction in n and eyes. There is no available data on r diarrhoea. | |
|--|--|--|---|--|
| POTASSIUM SULFATE | For sodium sulfate: The acute toxicity of sodium sulfate has not been established, but existing data indicate very low acute toxicity. Very high doses cause severe diarrhea. Sodium sulfate is not irritating to the skin, and only slightly irritating to the eyes. It is highly unlikely to cause sensitizing effects. There is no data regarding genetic toxicity except for a single negative test. | | | |
| POTASSIUM METABISULFITE | The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or lim | ited in animal testing. | | |
| CALCIUM CHLORIDE | For calcium: Toxicity from calcium is not common, because the gas term intake of large amounts of calcium does not gene stones. However, more severe toxicity can occur whe increased amounts of vitamin D, which increases calc administration of calcium via a vein. The material may produce severe irritation to the eye produce conjunctivitis. The material may cause skin irritation after prolonged production of vesicles, scaling and thickening of the ski | strointestinal tract normally limits the erally produce any ill effects aside fro n excess calcium is ingested over lor ium absorption. Calcium toxicity is al causing pronounced inflammation. R or repeated exposure and may prod kin. | amount of calcium absorbed. Therefore, short- m constipation and an increased risk of kidney ng periods, or when calcium is combined with so found sometimes after excessive epeated or prolonged exposure to irritants may uce on contact skin redness, swelling, the | |
| MAGNESIUM SULFATE, ANHYDROUS | Intravenous (woman) LDLo: 80 mg/kg/2m-l | | | |
| GUM XANTHAN | Evaluation of workers exposed to xanthan gum dust for press release about SimplyThick, a food-thickening act and health care providers not to feed SimplyThick, a t premature infants to suffer necrotizing enterocolitis. At Authority (EFSA), xanthan gum (European food additi adverse effects, even at high intake amounts. The EF concluded that there is no safety concern for the gene 415) can be regarded as non-toxic based on the result toxicological relevant changes were reported apart fro 2,000 mg/kg body weight (bw) per day for 12 weeks. 1,000 mg/kg bw per day, the highest dose tested. The genotoxicity, insufficient experimental data were avails and considering that xanthan gum has a molecular w metabolism, and excretion (ADME) data, it was not de acids by the gut microbiota, the Panel concluded that long-term studies, no adverse effects, including bioch study with repeated intake ranging from 10.4 to 12.9 gc mg/kg bw per day), it was reported that xanthan gum effects observed were moderate (10%) reduction in sc (p<0.05). A study investigating the effect of repeated i mg/kg bw per day) on colonic function showed signific (p<0.01) due to the ingestion of the xanthan gum. In cl infant formula or formula for special medical purposes balance and did not affect growth characteristics up to by the outcome of the post-marketing surveillance with reconstituted formula. | Evaluation of workers exposed to xanthan gum dust found evidence of a link to respiratory symptoms. On May 20, 2011, the FDA issued a press release about SimplyThick, a food-thickening additive containing xanthan gum as the active ingredient, warning parents, caregivers and health care providers not to feed SimplyThick, a thickening product, to premature infants[. The concern is that the product may cause premature infants to suffer necrotizing enterocolitis. According to a 2017 safety review by a scientific panel of the European Food Safety Authority (EFSA), xanthan gum (European food additive number E 415) is extensively digested during intestinal fermentation, and causes no adverse effects, even at high intake amounts. The EFSA panel found no concern about genotoxicity from long-term consumption. EFSA concluded that there is no safety concern for the general population when xanthan gum is consumed as a food additive. Xanthan gum (E 415) can be regarded as non-toxic based on the results of acute oral toxicity studies. From short-term and subchronic toxicity studies, no toxicological relevant changes were reported apart from a decrease in red blood cell count and haemoglobin concentration in dogs receiving 2,000 mg/kg body weight (bw) per day for 12 weeks. This effect was marginal and it was not reproduced in a dog chronic toxicity study at 1,000 mg/kg bw per day, the highest dose tested. The EFSA Panel noted that decreased total serum cholesterol was frequently reported. For genotoxicity, insufficient experimental data were available. However, taking into account the information on structure?activity relationships and considering that xanthan gum has a molecular w eight far above the threshold for absorption, according to absorption, distribution, metabolism, and excretion (ADME) data, it was not degraded in the intestine and is slightly fermented to non-hazardous short-chan fatty acids by the gut microbida, the Panel concluded that xanthan gum gum et ady(assuming a body weight of 70 kg corresponding to 149?1 | | |
| ZINC SULFATE | Oral (human) TDLo: 45 mg/kg/7d-C Eye (rabbit): 0.42 mg moderate Oral (man) TDLo: 180 mg/kg/6w-I Equivocal tumorigenic agent by RTECS criteria. for zinc sulfate heptahydrate Sleep, ataxia, respiratory stimulation, somnolence, coma, diarrhoea, changes in endocrine pancreas recorded. Exposure may produce irreversible effects*. NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to a subtract DNA. | | | |
| COPPER SULFATE | For copper sulfate 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 eve. also, eczema and allergic reactions. | | | |
| AMMONIUM SULFATE & DIAMMONIUM PHOSPHATE & POTASSIUM METABISULFITE & COPPER SULFATE | Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal hympocytic inflammation, without enclosed in the section of the severe bronchial hyperreactivity on methacholine challenge testing, | | | |
| DIAMMONIUM PHOSPHATE & POTASSIUM METABISULFITE & GUM XANTHAN & WATER | No significant acute toxicological data identified in liter | rature search. | | |
| Acute Toxicity | × | Carcinogenicity | × | |
| Skin Irritation/Corrosion | × | Reproductivity | × | |
| Serious Eye | * | STOT - Single Exposure | × | |
| Respiratory or Skin | × | STOT - Repeated Exposure | × | |
| sensitisation | × | Asniration Hazard | X | |
| mutagemetty | | Legend: X – Data either not a | available or does not fill the criteria for classification | |
| | | Data available to | o make classification | |

| Neuros Qualdas las estás | Endpoint | Test Duration (hr) | Species | Value | Source |
|---|------------------|--------------------|-------------------------------|---------------------|------------------|
| Neutrog Sudden Impact for Roses - Liquid | Not Available | Not Available | Not Available | Not Available | Not Available |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| Neutrog GOGO Juice | Not Available | Not Available | Not Available | Not Available | Not Available |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | LC50 | 96h | Fish | 0.29- | 4 |
| ammonium sulfate | NOEC(ECx) | 216h | Fish | 0.064mg/L | 4 |
| | EC50 | 48h | Crustacea | 52- 67mg/L | 4 |
| | Endpoint | Test Duration (br) | Species | Value | Source |
| | EC50 | 72h | Algae or other aquatic plants | 1430- | 2 |
| | | 101 | | 2900mg/l | - |
| potassium sulfate | EC50 | 48h | Crustacea | 890mg/l | 1 |
| | LC50 | 96h | Fish | 880mg/l | 4 |
| | EC50 | 96h | Algae or other aquatic plants | 1742.5mg/L | 4 |
| | NOEC(ECx) | 1h | Algae or other aquatic plants | 0.014mg/L | 4 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | EC50 | 72h | Algae or other aquatic plants | >100mg/l | 2 |
| diammonium phosphate | EC50 | 48h | Crustacea | >100mg/l | 2 |
| | LC50 | 96h | Fish | 1.32mg/L | 2 |
| | NOEC(ECx) | 72h | Algae or other aquatic plants | 100mg/l | 2 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | EC50 | 72h | Algae or other aquatic plants | 43.8mg/l | 2 |
| | ErC50 | 72h | Algae or other aquatic plants | 487.9mg/l | 2 |
| potassium metabisulfite | EC50 | 48h | Crustacea | 89mg/l | 2 |
| , | LC50 | 96h | Fish | 147- 215mg/l | 2 |
| | NOEC(ECx) | 504h | Crustacea | >10mg/l | 2 |
| | EC50 | 96h | Algae or other aquatic plants | 48mg/l | 2 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | NOEC(ECx) | Oh | Fish | 8.879mg/L | 4 |
| | LC50 | 96h | Fish | 3mg/l | 1 |
| calcium chloride | EC50 | 72h | Algae or other aquatic plants | 2900mg/l | 2 |
| | EC50 | 48h | Crustacea | 52mg/l | 1 |
| | EC50 | 96h | Algae or other aquatic plants | 1109.9mg/L | 4 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | EC50 | 72h | Algae or other aquatic plants | 2700mg/l | 1 |
| magnesium sulfate, anbydrous | EC50 | 48h | Crustacea | 266.4- 417.3mg/l | 4 |
| amyurous | LC50 | 96h | Fish | 33- 50mg/l | 4 |
| | EC0(ECx) | 72h | Algae or other aquatic plants | 220mg/l | 1 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| gum xanthan | LC50 | 96h | Fish | 320- 560mg/L | 4 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | BCF | 672h | Fish | <2-3.5 | 7 |
| ferrous sulfate anhydrous | EC50 | 48h | Crustacea | 6.15- 9.26ma/l | 4 |
| | LC50 | 96h | Fish | 0.41mg/L | 4 |
| | NOEC(ECx) | 48h | Algae or other aquatic plants | <0.001mg/L | 4 |
| manganese sulfate | Endnoint | Test Duration (br) | Species | Value | Source |
| | EC50 | 72h | Algae or other aduatic plants | 61mg/l | 2 |
| | | | | 7.09- | |
| | EC50 | 48n | Crustacea | 9.36mg/l | 4 |

| | | | | 0 19- | |
|----------------|--|--------------------|-------------------------------|---------------------|------------------|
| | LC50 | 96h | Fish | 12.49mg/l | 4 |
| | EC50 | 96h | Algae or other aquatic plants | 25.7mg/L | 4 |
| | NOEC(ECx) | 1440h | Crustacea | 0.01mg/l | 2 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | BCF | 1344h | Fish | 59-112 | 7 |
| | EC50 | 72h | Algae or other aquatic plants | 0.01- 0.122mg/l | 4 |
| zinc sulfate | EC50 | 48h | Crustacea | 0.06mg/L | 4 |
| | LC50 | 96h | Fish | <0.001mg/L | 4 |
| | EC50 | 96h | Algae or other aquatic plants | 0.01mg/L | 4 |
| | EC20(ECx) | 72h | Algae or other aquatic plants | 0.001- 0.075mg/l | 4 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | EC50 | 72h | Algae or other aquatic plants | <0.001mg/L | 4 |
| | EC50 | 48h | Crustacea | 0.001mg/L | 2 |
| copper suitate | LC50 | 96h | Fish | <0.001mg/L | 4 |
| | EC50 | 96h | Algae or other aquatic plants | 0.011mg/L | 4 |
| | NOEC(ECx) | 384h | Fish | <0.001mg/L | 4 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| water | Not Available | Not Available | Not Available | Not Available | Not Available |
| 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 | | | | |

DO NOT discharge into sewer or waterways.

Persistence and degradability

| Ingredient Persistence: Water/Soil | | Persistence: Air | |
|------------------------------------|------|------------------|--|
| ammonium sulfate | HIGH | HIGH | |
| magnesium sulfate, anhydrous | HIGH | HIGH | |
| ferrous sulfate anhydrous | HIGH | HIGH | |
| zinc sulfate | HIGH | HIGH | |
| copper sulfate | HIGH | HIGH | |
| water | LOW | LOW | |

Bioaccumulative potential

| Ingredient | Bioaccumulation |
|------------------------------|------------------------|
| ammonium sulfate | LOW (LogKOW = -2.2002) |
| magnesium sulfate, anhydrous | LOW (LogKOW = -2.2002) |
| ferrous sulfate anhydrous | LOW (BCF = 52) |
| zinc sulfate | LOW (BCF = 112) |
| copper sulfate | LOW (LogKOW = -2.2002) |

Mobility in soil

| Ingredient | Mobility |
|------------------------------|-----------------------|
| ammonium sulfate | LOW (Log KOC = 6.124) |
| magnesium sulfate, anhydrous | LOW (Log KOC = 6.124) |
| ferrous sulfate anhydrous | LOW (Log KOC = 6.124) |
| zinc sulfate | LOW (Log KOC = 6.124) |
| copper sulfate | LOW (Log KOC = 6.124) |

SECTION 13 Disposal considerations

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

SECTION 14 Transport information

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

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

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

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

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

| Product name | Group |
|------------------------------|---------------|
| Neutrog GOGO Juice | Not Available |
| ammonium sulfate | Not Available |
| potassium sulfate | Not Available |
| diammonium phosphate | Not Available |
| potassium metabisulfite | Not Available |
| calcium chloride | Not Available |
| magnesium sulfate, anhydrous | Not Available |
| gum xanthan | Not Available |
| ferrous sulfate anhydrous | Not Available |
| manganese sulfate | Not Available |
| zinc sulfate | Not Available |
| copper sulfate | Not Available |
| water | Not Available |

14.7.3. Transport in bulk in accordance with the IGC Code

| Product name | Ship Type |
|------------------------------|---------------|
| Neutrog GOGO Juice | Not Available |
| ammonium sulfate | Not Available |
| potassium sulfate | Not Available |
| diammonium phosphate | Not Available |
| potassium metabisulfite | Not Available |
| calcium chloride | Not Available |
| magnesium sulfate, anhydrous | Not Available |
| gum xanthan | Not Available |
| ferrous sulfate anhydrous | Not Available |
| manganese sulfate | Not Available |
| zinc sulfate | Not Available |
| copper sulfate | Not Available |
| water | Not Available |

SECTION 15 Regulatory information

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

| Neutrog GOGO Juice is found on the following regulatory lists |
|---|
| Not Applicable |
| ammonium sulfate is found on the following regulatory lists |
| Australian Inventory of Industrial Chemicals (AIIC) |
| FEI Equine Prohibited Substances List - Banned Substances |
| FEI Equine Prohibited Substances List (EPSL) |
| potassium sulfate is found on the following regulatory lists |
| Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4 |
| Australian Inventory of Industrial Chemicals (AIIC) |
| diammonium phosphate is found on the following regulatory lists |
| Australian Inventory of Industrial Chemicals (AIIC) |
| potassium metabisulfite 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 |

| | Australian Inventory of Industrial Chemicals (AIIC) | |
|--|--|--|
| International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic | | |
| | calcium chloride is found on the following regulatory lists | |
| | Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals | |
| | Australian Inventory of Industrial Chemicals (AIIC) | |
| 1 | magnesium sulfate, anhydrous is found on the following regulatory lists | |
| | Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 3 | |
| | Australian Inventory of Industrial Chemicals (AIIC) | |
| | FEI Equine Prohibited Substances List - Controlled Medication | |
| | FEI Equine Prohibited Substances List (EPSL) | |
| 1 | gum xanthan is found on the following regulatory lists | |
| 1 | Australian Inventory of Industrial Chemicals (AIIC) | |
| | | |
| | ferrous sulfate anhydrous 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 2 | |
| | 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) | |
| | manganese sulfate is found on the following regulatory lists | |
| | Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals | |
| | Australian Inventory of Industrial Chemicals (AIIC) | |
| 1 | zine sulfate is found on the following regulatory lists | |
| ÷, | Australia Hazardaus Chamial Information Sustant (HCIS) Hazardaus Chamiagia | |
| | Australia nazaluous orientea morinauti oystem (horo) - nazaluous orienteas orienteas a | |
| | Australia Standard for the Linitian Scheduling of Medicines and Poisons (SUSMP) - Schedule 4 | |
| | Australia Januard for un of Industrial Chemicals (AIIC) | |
| | | |
| | copper sulfate 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) | |
| | | |

water is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

Additional Regulatory Information

Not Applicable

National Inventory Status

| | National Inventory | Status | |
|--|--------------------|---|--|
| Australia - AIIC / Australia Non- Industrial Use Yes | | Yes | |
| Canada - DSL | | Yes | |
| | Canada - NDSL | No (ammonium sulfate; potassium sulfate; potassium metabisulfite; calcium chloride; magnesium sulfate, anhydrous; gum xanthan; manganese sulfate; zinc sulfate; copper sulfate; water) | |
| | China - IECSC | Yes | |
| Europe - EINEC / ELINCS / Yes Yes | | Yes | |
| Japan - ENCSNo (potassium metabisulfite)Korea - KECIYesNew Zealand - NZIoCYesPhilippines - PICCSYesUSA - TSCAYesTaiwan - TCSIYesMexico - INSQNo (manganese sulfate)Vietnam - NCIYesRussia - FBEPHYes | | No (potassium metabisulfite) | |
| | | Yes | |
| | | No (manganese sulfate) | |
| | | Yes | |
| | | 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 | 23/12/2022 |
|---------------|------------|
| Initial Date | 29/06/2017 |

SDS Version Summary

| Version | Date of Update | Sections Updated |
|---------|----------------|--|
| 3.1 | 01/11/2019 | One-off system update. NOTE: This may or may not change the GHS classification |
| | | |

| ¥ørsion | 2001112/03/02/20date | Sections Updated w due to GHS Revision change. |
|---------|----------------------|--|
| | | |

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 Cancel 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 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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