

Novachem Pty Ltd Version No: 2.2

Chemwatch Hazard Alert Code: 2

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Issue Date: 10/12/2023 Print Date: 10/12/2023 S.GHS.AUS.EN

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

Product Identifier

| Product name | Pregabalin |
|-------------------------------|---|
| Chemical Name | pregabalin |
| Synonyms | (S)-3-(Aminomethyl)-5-methylhexanoic acid |
| Other means of identification | B110581 |

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

Relevant identified uses For R&D use only. Not for pharmaceutical, household or other uses.

Details of the manufacturer or supplier of the safety data sheet

| Registered company name | Novachem Pty Ltd | Novachem Pty Ltd |
|-------------------------|---|---|
| Address | 25 Crissane Road, Heidelberg West Victoria 3081 Australia | 25 Crissane Road, Heidelberg West Victoria 3081 Australia |
| Telephone | +61384151255 | +61384151255 |
| Fax | +61386250088 | +61386250088 |
| Website | www.novachem.com.au | www.novachem.com.au |
| Email | novachem@novachem.com.au | novachem@novachem.com.au |

Emergency telephone number

| Association / Organisation | Victorian Poisons Information Centre | Victorian Poisons Information Centre |
|-----------------------------------|--------------------------------------|--------------------------------------|
| Emergency telephone numbers | 13 11 26 | 13 11 26 |
| Other emergency telephone numbers | Not Available | Not Available |

SECTION 2 Hazards identification

| Classification of the substance or mixture | | |
|--|---|--|
| Poisons Schedule | Not Applicable | |
| Classification ^[1] | Acute Toxicity (Oral) Category 4, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Reproductive Toxicity Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2 | |
| Legend: | 1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI | |

Label elements

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

Signal word Wa

d Warning

Hazard statement(s)

| H302 | Harmful if swallowed. |
|------|--|
| H336 | May cause drowsiness or dizziness. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

Continued...

Pregabalin

Precautionary statement(s) Prevention

| P201 | Obtain special instructions before use. |
|------|---|
| P260 | Do not breathe dust/fume. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves and protective clothing. |

Precautionary statement(s) Response

| r reductionary statement(s) response | | |
|--------------------------------------|---|--|
| P308+P313 | IF exposed or concerned: Get medical advice/ attention. | |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell. | |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. | |
| P330 | Rinse mouth. | |

Precautionary statement(s) Storage

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

Precautionary statement(s) Disposal

| P501 | 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 |
|----------------------------|--|---|
| 148553-50-8 100 pregabalin | | pregabalin |
| Legend: | 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classif Classification drawn from C&L * EU IOELVs available | fication drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. |

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 or hair contact occurs: 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, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Centre or a doctor. Urgent hospital treatment is likely to be needed. In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist. If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS. Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise: INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. NOTE: Wear a protective glove when inducing vomiting by mechanical means. | |

Indication of any immediate medical attention and special treatment needed

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 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

For anticonvulsants:

It is recommended that the physician withdraw the drug slowly on the appearance of unusual depression, aggressiveness, or other behavioral alterations.

As with other anticonvulsants, it is important to proceed slowly when increasing or decreasing dosage, as well as when adding or eliminating other medication. Abrupt withdrawal of anticonvulsant medication may precipitate absence (petit mal) status

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

Special hazards arising from the substrate or mixture

Advice for firefighters

| Fire Fighting | Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water courses. Use water delivered as a fine spray to control fire and cool adjacent area. |
|-----------------------|---|
| Fire/Explosion Hazard | Combustible solid which burns but propagates flame with difficulty; it is estimated that most organic dusts are combustible (circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions. 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). 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 - particles exceeding this limit will generally not form flammable dust clouds; once initiated, however, larger particles up to 1400 microns diameter will contribute to the propagation of an explosion. Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) nitrogen oxides (NOX) other pyrolysis products typical of burning organic material. May emit poisonous 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 waste regularly and abnormal 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. |
|--------------|--|
| Major Spills | Moderate hazard. CAUTION: Advise personnel in area. Alert Emergency Services and tell them location and nature of hazard. Control personal contact by wearing protective clothing. |

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

SECTION 7 Handling and storage

| Safe handling | 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. 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. |
|-------------------|--|
| Other information | Store in original containers. Keep containers securely sealed. Store in a cool, dry area protected from environmental extremes. Store away from incompatible materials and foodstuff containers. |

Conditions for safe storage, including any incompatibilities

| Suitable container | Glass container is suitable for laboratory quantities Polyethylene or polypropylene container. 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
- Not Available

Emergency Limits

| Ingredient | TEEL-1 | TEEL-2 | | TEEL-3 |
|---|---|---------------|----------------------------------|---------------|
| Pregabalin | Not Available | Not Available | | Not Available |
| to and the set | | | | |
| Ingredient | | | Revised IDLH | |
| pregabalin | Not Available | | Not Available | |
| Occupational Exposure Banding | | | | |
| Ingredient | Occupational Exposure Band Rating | | Occupational Exposure Band Limit | |
| pregabalin | 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 | Enclosed local exhaust ventilation is required at points of dust, fume or vapour generation. HEPA terminated local exhaust ventilation should be considered at point of generation of dust, fumes or vapours. Barrier protection or laminar flow cabinets should be considered for laboratory scale handling. A fume hood or vented balance enclosure is recommended for weighing/ transferring quantities exceeding 500 mg. | | | |
| Individual protection measures, such as personal protective equipment | | | | |
| Eye and face protection | When handling very small quantities of the material eye protection may not be required. For laboratory, larger scale or bulk handling or where regular exposure in an occupational setting occurs: Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent] Face shield. Full face shield may be required for supplementary but never for primary protection of eyes. | | | |
| Skin protection | See Hand protection below | | | |
| | 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. | | | |

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.

Hands/feet protection 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.

| | Rubber gloves (nitrile or low-protein, powder-free latex, latex/ nitrile). Employees allergic to latex gloves should use nitrile gloves in preference. Double gloving should be considered. PVC gloves. 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. |
|------------------|--|
| Body protection | See Other protection below |
| Other protection | For quantities up to 500 grams a laboratory coat may be suitable. For quantities up to 1 kilogram a disposable laboratory coat or coverall of low permeability is recommended. Coveralls should be buttoned at collar and cuffs. For quantities over 1 kilogram and manufacturing operations, wear disposable coverall of low permeability and disposable shoe covers. |

Respiratory protection

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

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|------------------------------------|----------------------|----------------------|------------------------|
| up to 10 x ES | P1 Air-line* | - | PAPR-P1 - |
| up to 50 x ES | Air-line** | P2 | PAPR-P2 |
| up to 100 x ES | - | P3 | - |
| | | Air-line* | - |
| 100+ x ES | - | Air-line** | PAPR-P3 |

* - Negative pressure demand ** - Continuous flow

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.

Class P2 particulate filters are used for protection against mechanically and thermally generated particulates or both.

P2 is a respiratory filter rating under various international standards, Filters at least 94% of airborne particles

Suitable for:

· Relatively small particles generated by mechanical processes eg. grinding, cutting, sanding, drilling, sawing.

· Sub-micron thermally generated particles e.g. welding fumes, fertilizer and bushfire smoke.

· Biologically active airborne particles under specified infection control applications e.g. viruses, bacteria, COVID-19, SARS

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

| Appearance | Powder | | |
|---|----------------------|---|----------------|
| | | | |
| Physical state | Divided Solid Powder | 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) | >50 | Viscosity (cSt) | Not Available |
| Initial boiling point and boiling range (°C) | Not Available | Molecular weight (g/mol) | 159.23 |
| 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 Applicable |
| 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 |

SECTION 10 Stability and reactivity

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

SECTION 11 Toxicological information

Information on toxicological effects

| Inhaled | The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. 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 | Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Antiepileptic drugs (AEDs) act as anticonvulsants and increase the risk of suicidal thoughts or behaviour in patients taking these drugs for any indication, as such, should be monitored carefully. However, this is limited to 24 weeks study and there is no gender or age barrier to these effects. The material may simulate the actions of GABA (gamma-aminobutyric acid), a major inhibitory neurotransmitter of the brain. Hence it inhibits the electrical activity of certain parts of the nervous systems. Certain substances similar to GABA may produce lightheadedness, inco-ordination, and mood elevation. | | | |
| Skin Contact | Skin contact is not thought to produce harmful health effects (as classified under EC Directives using animal models). Systemic harm, however, has been identified following exposure of animals by at least one other route and the material may still produce health damage following entry through wounds, lesions or abrasions. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. | | | |
| Eye | Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result. | | | |
| Chronic | Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility. Based on experience with animal studies, exposure to the material may result in toxic effects to the development of the foetus, at levels which do not cause significant toxic effects to the mother. 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. | | | |
| | | | | |
| Pregabalin | ΤΟΧΙΟΙΤΥ | IRRITATION | | |
| | Not Available Not Available | | | |
| | τοχιειτγ | | IRRITATION | |
| pregabalin | Oral (Mouse) LD50; >5000 mg/kg ^[2] | | Not Available | |
| | | | | |
| Legena: | Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances | | | |
| | | | | |
| PREGABALIN | Skin Sensitization - LLNA Rat Negative Skin Sensitization - Beuhler Guinea Pig Negative 13 Week(s) Rat Oral 50 mg/kg/day NOAEL Central nervous system, Male reproductive system 4 Week(s) Rat Oral 500 mg/kg/day LOAEL Central Nervous System Male reproductive system 52 Week(s) Rat Oral 50 mg/kg/day LOAEL Blood forming organs Peri-/Postnatal Development Rat Oral 100 mg/kg/day NOAEL Developmental toxicity, Fertility Fertility & Early Embryonic Development - Males Rat Oral 250 mg/kg/day NOAEL No effects at maximum dose Fertility & | | | |

| | (CHQ) cells Negative 104 Week(s) Mouse Oral 1000 mg/kg/day NOAEL Not carcinogenic 104 Week(s) Rat Oral 450 mg/kg/day NOAEL Not carcinogenic 104 Week(s) Mouse Oral 200 mg/kg/day NOAEL Malignant tumors * Pficzer SDS Animal studies indicate that this material may cause adverse effects on the foetus Adverse effects most commonly reported in clinical use include dizziness, blurred vision, weight gain, sleepiness (somolence), inability to concentrate, swelling, and dry mouth. Hypersensitivity reactions may also occur in susceptible individuals. Other less common effects include suicidal behavior Pregabalin neuroses metabolites of metabolites of pregabalin does of radiolabelled pregabalin, approximately 98% of the radioactivity recovered in the urine was unchanged pregabalin. The N-methylated derivative of pregabalin, the major metabolite of pregabalin of unine, accounted for 0.9% of the dose. In preclinical studies, there was no indication of racemisation of pregabalin to the a2-d pitcle is required for analgesic and anticonvulsant activity in animal models: (1) Studies with the inaction R - analgesic and anticonvulsant activity in animal models: (1) Studies with the inactine R - enantiomer and other structural derivatives of pregabalin and (2) Studies of pregabalin does not show affinity for receptor sites or alter responses associated with the action of several common drugs for treating seizures or pain. Pregabalin does not show affinity for receptor sites or alter responses associated with the action desiveral, maximal nodels of neuropathic and post-surgical pain, including phyperalgesia and aldoynia. Pregabalin is also active in animal models of seizures, including maximal electroshock tonic extensor seizures in mDA2 audiogenic mice. Pregabalin does not reduce the incidence of spontaneous absence seizures in motio or tast, threshold clonic seizures from pentylenetetrazol, behavioural and electorgraphic seizures in hippocampal kindled rats, and tonic and clonic seizures in DBA2 audiogenic mice. Pregabalin does | | |
|-------------------------------|--|------------------------|---|
| Pregabalin & PREGABALIN | Adverse effects associated with gabapentinoids, including somnolence, dizziness and ataxia, occur in healthy volunteers implying an ability to modulate transmitter release within the CNS. Furthermore, de novo sensitivity of those with chronic pain, epilepsy and anxiety disorders to gabapentinoids implicates other factors within CNS circuits that determine the additional inhibitory activity of these drugs. The comparative effects of gabapentinoids in animal models and neuropathic patients are suggestive of similar processes being involved. It is worth considering continuation of profiling and sub-grouping of patients within trials as this could lead to the identification of better predictors of efficacy. Reports suggest an association between the use of anticonvulsant drugs by women with epilepsy and an elevated incidence of birth defects in children born to these women. However, whether the abnormalities are caused by the maternal epilepsy itself or by exposure to anticonvulsant drugs is unclear and unsubstantiated by study till date. Exposure in utero has lead to high frequency of 'anticonvulsant embryopathy' characterised by growth retardation, and hypoplasia of the mid face and fingers. As such, pregnant patients with seizure disorders should be carefully considered before administrating anticonvulsant therapy. The material may simulate the actions of GABA (gamma-aminobutyric acid), a major inhibitory neurotransmitter of the brain. Hence it inhibits the electrical activity of certain parts of the nervous systems. Certain substances similar to GABA may produce lightheadedness, inco-ordination, and mood elevation. | | |
| Acute Toxicity | * | Carcinogenicity | × |
| Skin Irritation/Corrosion | X | Reproductivity | × |
| Serious Eve Damage/Irritation | X | STOT - Single Exposure | |

| Skin Irritation/Corrosion | × | Reproductivity | × |
|--------------------------------------|---|--------------------------|---|
| Serious Eye Damage/Irritation | × | STOT - Single Exposure | × |
| Respiratory or Skin sensitisation | × | STOT - Repeated Exposure | * |
| Mutagenicity | × | Aspiration Hazard | × |
| | | Laward Y - Data either n | ot available or does not fill the criteria for classification |

Legend: X − Data either not available or does not fill the criteria for classification → − Data available to make classification

SECTION 12 Ecological information

| December 1 | Endpoint | Test Duration (hr) | Species | Value | Source |
|------------|---------------|--------------------|---------------|---------------|---------------|
| Pregabalin | Not Available | Not Available | Not Available | Not Available | Not Available |
| | | | | | |
| | | | | | |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| pregabalin | EC50 | 48h | Crustacea | >1000mg/l | Not Available |
| | LC50 | 96h | Fish | >1000mg/l | Not Available |
| | EC50(ECx) | 48h | Crustacea | >1000mg/l | Not Available |
| | 1 | | | | 1 |

DO NOT discharge into sewer or waterways.

Persistence and degradability

| i orononoo ana aogradability | | |
|------------------------------|---------------------------------------|---------------------------------------|
| Ingredient | Persistence: Water/Soil | Persistence: Air |
| | No Data available for all ingredients | No Data available for all ingredients |
| Bioaccumulative potential | | |
| In months and | Discourse detion | |
| Ingredient | Bioaccumulation | |
| | No Data available for all ingredients | |
| | | |
| Mobility in soil | | |
| Ingredient | Mobility | |
| | No Data available for all ingredients | |

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. Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: Reduction Reuse Recycling Disposal (if all else fails) This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. D 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 sever may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. |

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 |
|--------------|---------------|
| pregabalin | Not Available |
| | |

14.7.3. Transport in bulk in accordance with the IGC Code

| Product name | Ship Type |
|--------------|---------------|
| pregabalin | Not Available |

SECTION 15 Regulatory information

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

pregabalin is found on the following regulatory lists

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

Additional Regulatory Information

Not Applicable

National Inventory Status

National Inventory

Status

| National Inventory | Status |
|--|---|
| Australia - AIIC / Australia Non-Industrial Use | No (pregabalin) |
| Canada - DSL | No (pregabalin) |
| Canada - NDSL | No (pregabalin) |
| China - IECSC | No (pregabalin) |
| Europe - EINEC / ELINCS / NLP | No (pregabalin) |
| Japan - ENCS | No (pregabalin) |
| Korea - KECI | No (pregabalin) |
| New Zealand - NZIoC | No (pregabalin) |
| Philippines - PICCS | No (pregabalin) |
| USA - TSCA | No (pregabalin) |
| Taiwan - TCSI | No (pregabalin) |
| Mexico - INSQ | No (pregabalin) |
| Vietnam - NCI | Yes |
| Russia - FBEPH | No (pregabalin) |
| 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 | 10/12/2023 |
|---------------|------------|
| Initial Date | 11/12/2023 |
| | |

SDS Version Summary

| Version | Date of Update | Sections Updated |
|---------|----------------|---|
| 1.2 | 10/12/2023 | Hazards identification - Classification, Identification of the substance / mixture and of the company / undertaking - Use |

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, ۲
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ÷ ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level ٠
- LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- ۶ BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level ٠
- PNEC: Predicted no-effect concentration
- AIIC: Australian Inventory of Industrial Chemicals
- ٠ DSL: Domestic Substances List
- ٠ NDSL: Non-Domestic Substances List
- ۶ IECSC: Inventory of Existing Chemical Substance in China
- ٠ EINECS: European INventory of Existing Commercial chemical Substances
- ٠ ELINCS: European List of Notified Chemical Substances
- ٠ NLP: No-Longer Polymers
- ٠ 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
- ٠ TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- ۶ INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory ٠

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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