

# Moneco 400 for Cattle, Goats and Poultry International Animal Health Products Pty Ltd

Chemwatch: 47-7428

Version No: 6.1

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

Chemwatch Hazard Alert Code: 4

Issue Date: **15/04/2021** Print Date: **10/09/2024** S.GHS.AUS.EN.E

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

### **Product Identifier**

Product name	Moneco 400 for Cattle, Goats and Poultry
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

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

	An aid in the prevention of coccidiosis in cattle, goats, broiler and poultry. For improving feed efficiency in beef cattle; weight gain, feed efficiency and reproductive performance in heifers; as an aid in reducing the severity of non-clinical ketosis and an
Relevant identified uses	increase in milk production in lactating dairy cows; an aid in the control of bloat in ruminants.
	Use according to manufacturer's directions.

### Details of the manufacturer or supplier of the safety data sheet

Registered company name	International Animal Health Products Pty Ltd
Address	18 Healey Circuit Huntingwood NSW 2148 Australia
Telephone	+61 2 9672 7944
Fax	+61 2 9672 7988
Website	www.iahp.com.au
Email	info@iahp.com.au

### **Emergency telephone number**

Association / Organisation	Australian Poison Information Centre
Emergency telephone numbers	13 11 26 (24 Hours)
Other emergency telephone numbers	New Zealand: National Poisons Centre 0800 764 766 (24 hours)

# **SECTION 2 Hazards identification**

# Classification of the substance or mixture

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

Poisons Schedule	S4
Classification <sup>[1]</sup>	Acute Toxicity (Oral) Category 2, Sensitisation (Skin) Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 4
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

### Label elements

Hazard pictogram(s)	
Signal word	Danger

### Hazard statement(s)

H300	Fatal if swallowed.
H317	May cause an allergic skin reaction.
H413	May cause long lasting harmful effects to aquatic life.

### Supplementary statement(s)

Not Applicable

### Precautionary statement(s) Prevention

P264	Wash all exposed external body areas thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves and protective clothing.
P261	Avoid breathing dust/fumes.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.

### Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

### Precautionary statement(s) Storage

Store locked up.

### Precautionary statement(s) Disposal

P405

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
22373-78-0	30-60	monensin sodium
471-34-1	NotSpec	calcium carbonate
Not Available	balance	Ingredients determined not to be hazardous
Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available		

# **SECTION 4 First aid measures**

### Description of first aid measures

Eye Contact

If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water.

	<ul> <li>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.</li> <li>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>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.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>
Ingestion	<ul> <li>IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.</li> <li>For advice, contact a Poisons Information Centre or a doctor.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>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.</li> <li>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.</li> <li>If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.</li> <li>Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:</li> <li>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.</li> <li>NOTE: Wear a protective glove when inducing vomiting by mechanical means.</li> </ul>

### Indication of any immediate medical attention and special treatment needed

#### Treat symptomatically.

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

# **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

<ul> <li>Fire/Explosion Hazard</li> <li>Fire/Explosion Hazard</li> <li>Particlas exceeding this limit will generally not form flammable 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.</li> <li>In the same way as gases and vapours, dusts in the form of a cloud are only ignitable over a range of concentrations; in principle, the concepts of lower explosive limit (LEL) and upper explosive limit (UEL) are applicable to dust clouds at high temperatures (for dusts the LEL is often called the "Minimum Explosible Concentration", MEC).</li> <li>When processed with flammable liquids/vapors/mistis.ginitable (hybrid) mixtures may be formed with combustible dusts. Ignitable mixtures will increase the rate of explosion pressure rise and the Minimum Ignition Energy (the minimum amount o energy required to ignite dust clouds - MIE) will be lower than the pure dust in air mixture. The Lower Explosive Limit (LEL) the vapour/dust mixture will be lower than the individual LELs for the vapors/mists or dusts.</li> <li>A dust explosion may release of large quantities of gaseous products; this in turn creates a subsequent pressure rise of explosion may settled dust layers, forming a second dust cloud, and often initiate a much larger secondary explosion. All large scale explosions have resulted from chain reactions of this type.</li> <li>Dry dust can be charged electrostatically by turbulence, pneumatic transport, pouring, in exhaust ducts and during transport.</li> <li>Build-up of electrostatic charge may be prevented by bonding and grounding.</li> <li>Powder handing equipment such as dust collectors, dryers and mills may require additional protection measures such as explosion netense, may result in ignition especially in the absence of an apparent igniton. Succementary explosion source.</li> <li>One important effec</li></ul>	Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
Fire/Explosion Hazzid       • Veen to teaching apparatuse plus protective gloves in the event of a fire.         Fire/Explosion Hazzid       • Veents to sample glinger from entering darius or vuer courses.         • Use fire fighting procedures suitable for surrounding area.       • Do NOT approach containers survey ary from a protected location.         • If safe to do so, remove containers on parts of fire.       • Equipment should be thoroughly decontaminated after use.         • Oradination of the sequest do thick burns but propagates flame with difficulty: it is estimated that most organic dusts are combustible (area 70%) - according to the discussion process occurs, such materials may cause fires and / or dust explosions.         • Organic powers when finely divide over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidoing medium may form explosive dust-air mixtures and results in a fire or dust explosion (including) according to the processive dust-air mixtures and results in a fire or dust explosion including or a particular hazard, accumulations of fine dust (420 micron or less) may burn rapidly and thereby if ignite-in 400 microns diameter will contribute to the propagation of an explosive limit (LL) are pipicable to clus choices busic to the dust clus but only burn apply and flereby if ignite-integratives (indicates use - this because of the interment difficulty of achieving harmonic dust is a more only ignitable over a range of concentrations; in principle, the concepts of lower explosive limit (LL) and upper explosive limit (LL) are pipicable to dust clus but only the targe usatities of the dust (A20 micron or less) in the analy the minimum amount of the explosion have as gases and vapous, dust in the find of achieving harmonich, MECO, the notinsute	dvice for firefighters	
<ul> <li>Fire/Explosion Hazard</li> <li>Fire/Explosion Hazard</li> <li>Provable solution of the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions.</li> <li>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.</li> <li>Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixtur with air, and any source of ginition, i.e. finame or spark, will cause fire or explosion. Dust clouds generated by the fine ginitian of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn rapidly and flercely if ginited - particles exceeding this timit will generality not form flammable dust clouds; once initiated, however, larger particles up to 1400 microns diameter will contribute to the propagation of an explosive limit (UEL) are applicable to dust clouds but only the LEL is of practical use; - this is because of the inherent difficulty of achiving hormogeneous dust clouds at high temperatures (for dusts the LEL is of the calpolosin pressure rise and the Minimum gluiton Entry (the minimum amount or energy required to ignite dust clouds - MIE) will be lower than the pure dust in air mixture. The Lower Explosive Limit (LEL) the vapour/mists or dusts.</li> <li>A dust explosion may release of 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.</li> <li>Usually the initial or primary explosion intakes 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. All arge scale explosions have ressuited from chain reactions of this type.</li> <li>Usually</li></ul>	Fire Fighting	<ul> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul>
	Fire/Explosion Hazard	<ul> <li>(circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions.</li> <li>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).</li> <li>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 micro or less) may burn rapidly and ficrely 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.</li> <li>In the same way as gases and vapours, dusts in the form of a cloud are only ignitable over a range of concentrations; in principle, the concepts of lower explosive limit (LEL) and upper explosive limit (UEL) are applicable to dust clouds but only the LEL is of practical use; - this is because of the inherent difficulty of achieving homogeneous dust clouds at high temperatures (for dusts the LEL is often called the "Minimum Explosible Concentration", MEC).</li> <li>When processed with flammable liquids/vapors/mists.ignitable (hybrid) mixtures may be formed with combustible dusts. Ignitable release of large quantities of gaseous products; this in turn creates a subsequent pressure rise of explosion farmed with combustible dusts.</li> <li>Joutable particlesse of large quantities of gaseous products; this in turn creates a subsequent pressure rise of explosion enters the surrounding area, It will disturb any settled dust layers, forming a second dust cloud, and often initiate a much larger secondary</li></ul>

# **SECTION 6 Accidental release measures**

**Minor Spills** 

# Personal precautions, protective equipment and emergency procedures

See section 8

### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

- 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.
- Vacuum up or sweep up. NOTE: Vacuum cleaner must be fitted with an exhaust micro filter (H-Class HEPA type) (consider explosion-proof machines designed to be grounded during storage and use). H-Class HEPA filtered industrial vacuum

	<ul> <li>cleaners should NOT be used on wet materials or surfaces.</li> <li>Dampen with water to prevent dusting before sweeping.</li> <li>Place in suitable containers for disposal.</li> </ul>
Major Spills	<ul> <li>Moderate hazard.</li> <li>CAUTION: Advise personnel in area.</li> <li>Alert Emergency Services and tell them location and nature of hazard.</li> <li>Control personal contact by wearing protective clothing.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Recover product wherever possible.</li> <li>IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal.</li> <li>ALWAYS: Wash area down with large amounts of water and prevent runoff into drains.</li> <li>If contamination of drains or waterways occurs, advise Emergency Services.</li> </ul>

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

# **SECTION 7 Handling and storage**

# Precautions for safe handling

Safe handling	<ul> <li>NOTE : Do NOT pipette by mouth. Only trained personnel should be allowed to handle or use this product.</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective cichting when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT allow material to contact humans, exposed food or food utensils.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid contact with incompatible materials.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> <li>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)</li> <li>Mirimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame.</li> <li>Establish good housekeeping practices.</li> <li>Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds.</li> <li>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. According to NFPA Standard 654, dust layers 1/32 in (0.8 mm) thick can</li></ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry area protected from environmental extremes.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>For major quantities:</li> <li>Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams).</li> <li>Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities.</li> </ul>

# Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Glass container is suitable for laboratory quantities</li> <li>Polyethylene or polypropylene container.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
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	calcium	Calcium	10	Not	Not	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Standards	carbonate	carbonate	mg/m3	Available	Available	

# Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
calcium carbonate	45 mg/m3	210 mg/m3		1,300 mg/m3
Ingredient	Original IDLH		Revised IDLH	
Ingredient monensin sodium	Original IDLH Not Available		Revised IDLH Not Available	

# Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
monensin sodium	D	> 0.01 to $\leq$ 0.1 mg/m <sup>3</sup>	
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	For potent pharmacological agents:
	Powders
	To prevent contamination and overexposure, no open handling of powder should be allowed.
	Powder handling operations are to be done in a powders weighing hood, a glove box, or other equivalent ventilated containment system.
	In situations where these ventilated containment hoods have not been installed, a non-ventilated enclosed containment hood should be used.
	Pending changes resulting from additional air monitoring data, up to 300 mg can be handled outside of an enclosure
	provided that no grinding, crushing or other dust-generating process occurs.
	An air-purifying respirator should be worn by all personnel in the immediate area in cases where non-ventilated containment
	is used, where significant amounts of material (e.g., more than 2 grams) are used, or where the material may become
	airborne (as through grinding, etc.).
	<ul> <li>Powder should be put into solution or a closed or covered container after handling.</li> </ul>
	If using a ventilated enclosure that has not been validated, wear a half-mask respirator equipped with HEPA cartridges until
	the enclosure is validated for use.
	Solutions Handling:
	Solutions can be handled outside a containment system or without local exhaust ventilation during procedures with no
	potential for aerosolisation. If the procedures have a potential for aerosolisation, an air-purifying respirator is to be worn by a
	personnel in the immediate area.
	<ul> <li>Solutions used for procedures where aerosolisation may occur (e.g., vortexing, pumping) are to be handled within a</li> </ul>
	containment system or with local exhaust ventilation.
	<ul> <li>In situations where this is not feasible (may include animal dosing), an air-purifying respirator is to be worn by all personnel i</li> </ul>
	the immediate area. If using a ventilated enclosure that has not been validated, wear a half-mask respirator equipped with
	HEPA cartridges until the enclosure is validated for use.
	<ul> <li>Ensure gloves are protective against solvents in use.</li> </ul>
	Unless written procedures, specific to the workplace are available, the following is intended as a guide:
	<ul> <li>For Laboratory-scale handling of Substances assessed to be toxic by inhalation. Quantities of up to 25 grams may</li> </ul>
	be handled in Class II biological safety cabinets *; <i>Quantities of 25 grams to 1 kilogram</i> may be handled in Class II
	biological safety cabinets* or equivalent containment systems; <i>Quantities exceeding 1 kg</i> may be handled either using
	specific containment, a hood or Class II biological safety cabinet*,
	<ul> <li>HEPA terminated local exhaust ventilation should be considered at point of generation of dust, fumes or vapours.</li> </ul>
	<ul> <li>The need for respiratory protection should also be assessed where incidental or accidental exposure is anticipated.</li> </ul>
	Dependent on levels of contamination, PAPR, full face air purifying devices with P2 or P3 filters or air supplied respirators
	should be evaluated. When handling: Quantities of up to 25 grams, an approved respirator with HEPA filters or cartridges

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	<ul> <li>should be considered; <i>Quantities of 25 grams to 1 kilogram</i>, a half-face negative pressure, full negative pressure, or powered helmet-type air purifying respirator should be considered. <i>Quantities in excess of 1 kilogram</i>, a full face negative pressure, helmet-type air purifying, or supplied air respirator should be considered.</li> <li>Written procedures, specific to a particular work-place, may replace these recommendations</li> <li>* For Class II Biological Safety Cabinets, Types B2 or B3 should be considered. Where only Class I, open fronted Cabinets are available, glove panels may be added, Laminar flow cabinets do not provide sufficient protection when handling these materials unless especially designed to do so.</li> <li>Pilot Plant and Production</li> <li>Wear appropriate gloves; lab coat, nylon coveralls or disposable Tyvek suit; safety glasses, safety shoes, and disposable booties. Use good manufacturing practices (i.e., cGMPs).</li> <li>Protective garment (coveralls, Tyvek, lab coat) is not to be worn outside the work area.</li> <li>Clean/dirty/decontamination areas are to be established.</li> <li>Negative/positive air pressure relationships and buffer zones required (i.e., ante-room/degowning room/airlock).</li> <li>Area access is to be restricted.</li> <li>High-energy operations such as milling, particle sizing, spraying or fluidising should be done within an approved emission control or containment system.</li> <li>Develop cleaning procedures and techniques that limit potential exposure</li> </ul>
Individual protection measures, such as personal protective equipment	
Eye and face protection	<ul> <li>When handling very small quantities of the material eye protection may not be required.</li> <li>For laboratory, larger scale or bulk handling or where regular exposure in an occupational setting occurs: <ul> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]</li> <li>Face shield. Full face shield may be required for supplementary but never for primary protection of eyes.</li> <li>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.</li> <li>Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].</li> </ul> </li> </ul>
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 observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: frequency and duration of contact, is dependent on usage. Important factors in the selection of gloves include: frequency and duration of contact, is dependent on usage. Important factors in the selection of gloves include: frequency and duration of contact, glove thickness and is deviating to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). When only brief contact is expected, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.

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#### **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.

### **SECTION 9** Physical and chemical properties

### Information on basic physical and chemical properties

Appearance	Brown, amorphous, free flowing powder			
Physical state	Divided Solid	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 Applicable	Decomposition temperature (°C)	Not Available	

Melting point / freezing point (°C)	Not Available	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 Available	Explosive properties	Not Available
Flammability	Not Applicable	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
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	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
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 dusts, generated by the material during the course of of the individual. Persons with impaired respiratory function, airway diseases and further disability if excessive concentrations of particulate are inh If prior damage to the circulatory or nervous systems has occurre should be conducted on individuals who may be exposed to furth exposures.	conditions such as emphysema or chronic bronchitis, may incur aled. ed or if kidney damage has been sustained, proper screenings
Ingestion	Toxic effects may result from the accidental ingestion of the mat gram may be fatal or may produce serious damage to the health lonophores are common antibacterials. Toxic levels can cause ce food, from exposure to undiluted formulations or from mixing error into feeds. Side effects may include muscle damage, loss of appe- stiffness and weakness.	of the individual. Il death and may result when high amounts are taken through rs. They may be potentiated by various antibiotics incorporated
Skin Contact	Skin contact with the material may damage the health of the indiv Open cuts, abraded or irritated skin should not be exposed to this	
Eye	Although the material is not thought to be an irritant (as classified transient discomfort characterised by tearing or conjunctival redn	
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course. 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.	
Moneco 400 for Cattle,	ΤΟΧΙΟΙΤΥ	IRRITATION
Goats and Poultry	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
monensin sodium	Oral (Horse) LD50; 2 mg/kg <sup>[2]</sup>	Not Available

calcium carbonate       Inhalation         Inhalation       Oral (Rat         Inhalation       Oral (Rat         Inhalation       Inhalation         Inhalation       Oral (Rat         Inhalation       Inhalation         Inhalation       <	at) LD50: >2000 mg/kg <sup>[1]</sup> (Rat) LC50: >3 mg/l4h <sup>[1]</sup> LD50: >2000 mg/kg <sup>[1]</sup> tained from Europe ECHA Registered S erwise specified data extracted from RT alysis, muscle weakness, ataxia, diarrh ng information refers to contact allergen wrgies quickly manifest themselves as c is of contact eczema involves a cell-me ns, e.g. contact urticaria, involve antibo rmined by its sensitisation potential: the ortant. A weakly sensitising substance was nsitising potential with which few indivice if they produce an allergic test reaction ress appears to be a common feature of ion of reactive oxygen species (ROS). A mide adenine dinucleotide phosphate tathione that is used to detoxify ROS. A via enhancing glycolytic flux . oxidative stress by ionophores damage NA by catalyzing the addition of ADP-ri VAD+. In the case of extensive DNA da lepends upon the reduction of NAD+ to colysis impairs NADPH production and etics catastrophe leading to necrosis ha Na+/H+exchanger (NHE) is represente a robust positive results seen with NHE- nacological agents for clinical assessmentions	Eye: no adverse Skin (rabbit): 500 Skin: no adverse Substances - Acute toxicity 2. Val TECS - Register of Toxic Effect of moea recorded. Ins as a group and may not be spe contact eczema, more rarely as u ediated (T lymphocytes) immune bdy-mediated immune reactions. e distribution of the substance an which is widely distributed can be duals come into contact. From a con in more than 1% of the persons of ionophores as both monensin Cells respond to oxidative stress (NADPH) is a crucial coenzyme to AMP-activated protein kinase (AM es DNA. Cells use the enzyme po ibose moieties to nuclear proteins amage, PARP can become overst o NADH, and loss of NAD+ blocks rapidly depletes ATP, ultimately le as been reported for DNA damag ed primarily by the ubiquitous NHI E-1 inhibitors in experimental stud	ecific to this product. Inticaria or Quincke's oedema. The reaction of the delayed type. Other allergic The significance of the contact allergen is not ad the opportunities for contact with it are e a more important allergen than one with clinical point of view, substances are tested. and salinomycin were reported to increase s by upregulating ROS detoxifying pathways, that is required for the regeneration of MPK) was shown to increase NADPH oly (ADP-ribose) polymerase (PARP) to signal s at the site of damage in a reaction that timulated and deplete cellular NAD+ . s glycolysis. leading to necrotic cell death. This mechanism ging alkylating agents (e.g. nitrogen mustards IE-1 subtype which is expressed in most ties have led to relatively rapid development of opprotective therapies. Yet clinical studies have
calcium carbonate       Inhalation         Oral (Rat         Oral (Rat         Legend:       1. Value ob Unless oth         Spastic par         The followin Contact alle pathogenes skin reaction simply dete equally imp stronger se noteworthy         Oxidative s         Inhalation         Glycolysis a         Glycolysis a         Loss of glycol         f bioenerg Myocardial tissues. The these pharm	(Rat) LC50: >3 mg/l4h <sup>[1]</sup> LD50: >2000 mg/kg <sup>[1]</sup> alupto: >2000 mg/kg <sup>[</sup>	Eye: no adverse Skin (rabbit): 500 Skin: no adverse Substances - Acute toxicity 2. Val TECS - Register of Toxic Effect of noea recorded. In sas a group and may not be spe contact eczema, more rarely as u ediated (T lymphocytes) immune bdy-mediated immune reactions. e distribution of the substance an which is widely distributed can be duals come into contact. From a of n in more than 1% of the persons of ionophores as both monensin Cells respond to oxidative stress (NADPH) is a crucial coenzyme f AMP-activated protein kinase (AM es DNA. Cells use the enzyme po ibose moieties to nuclear proteins amage, PARP can become overst to NADH, and loss of NAD+ blocks rapidly depletes ATP, ultimately le as been reported for DNA damag ed primarily by the ubiquitous NHI E-1 inhibitors in experimental stud nent especially as potential cardio	e effect observed (not irritating) <sup>[1]</sup> 0 mg/24h-moderate e effect observed (not irritating) <sup>[1]</sup> alue obtained from manufacturer's SDS. of chemical Substances ecific to this product. Irritaria or Quincke's oedema. The reaction of the delayed type. Other allergic The significance of the contact allergen is not ad the opportunities for contact with it are e a more important allergen than one with clinical point of view, substances are tested. and salinomycin were reported to increase is by upregulating ROS detoxifying pathways, that is required for the regeneration of MPK) was shown to increase NADPH oly (ADP-ribose) polymerase (PARP) to signal is at the site of damage in a reaction that timulated and deplete cellular NAD+ . is glycolysis. leading to necrotic cell death. This mechanism ging alkylating agents (e.g. nitrogen mustards IE-1 subtype which is expressed in most ties have led to relatively rapid development of oprotective therapies. Yet clinical studies have
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Legend:       1. Value ob Unless oth         Spastic part       The followin         Contact alle pathogeness skin reaction simply dete equally imp stronger se noteworthy       Spastic part         Oxidative s       the product and nicotinar reduced glu production In addition, damaged       Spastic part         MONENSIN SODIUM       Glycolysis of Loss of glyc of bioenerg Myocardial tissues. The these phart       Spastic part	tained from Europe ECHA Registered S erwise specified data extracted from R alysis, muscle weakness, ataxia, diarrh ig information refers to contact allergen rgies quickly manifest themselves as c is of contact eczema involves a cell-me ns, e.g. contact urticaria, involve antibo rmined by its sensitisation potential: the ortant. A weakly sensitising substance v is sitising potential with which few indivic if they produce an allergic test reaction ress appears to be a common feature of ion of reactive oxygen species (ROS) . amide adenine dinucleotide phosphate tathione that is used to detoxify ROS. A via enhancing glycolytic flux . oxidative stress by ionophores damage NA by catalyzing the addition of ADP-ri VAD+. In the case of extensive DNA da lepends upon the reduction of NAD+ to colysis impairs NADPH production and etics catastrophe leading to necrosis ha Na+/H+exchanger (NHE) is represente e robust positive results seen with NHE- nacological agents for clinical assessment	Skin: no adverse Substances - Acute toxicity 2. Val TECS - Register of Toxic Effect of noea recorded. Ins as a group and may not be spe contact eczema, more rarely as u ediated (T lymphocytes) immune bdy-mediated immune reactions. e distribution of the substance an which is widely distributed can be duals come into contact. From a con in more than 1% of the persons of ionophores as both monensin Cells respond to oxidative stress (NADPH) is a crucial coenzyme to AMP-activated protein kinase (AM es DNA. Cells use the enzyme po ibose moieties to nuclear proteins amage, PARP can become overst o NADH, and loss of NAD+ blocks rapidly depletes ATP, ultimately le as been reported for DNA damag ed primarily by the ubiquitous NHI E-1 inhibitors in experimental stud nent especially as potential cardio	e effect observed (not irritating) <sup>[1]</sup> whe obtained from manufacturer's SDS. of chemical Substances ecific to this product. Intricaria or Quincke's oedema. The reaction of the delayed type. Other allergic The significance of the contact allergen is not ad the opportunities for contact with it are e a more important allergen than one with clinical point of view, substances are tested. and salinomycin were reported to increase s by upregulating ROS detoxifying pathways, that is required for the regeneration of MPK) was shown to increase NADPH oly (ADP-ribose) polymerase (PARP) to signal s at the site of damage in a reaction that timulated and deplete cellular NAD+ . s glycolysis. leading to necrotic cell death. This mechanism ging alkylating agents (e.g. nitrogen mustards IE-1 subtype which is expressed in most ties have led to relatively rapid development of approtective therapies. Yet clinical studies have
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therapeutic open for dis applied app ischemic in Side effects	nhibitor cariporide in high-risk patients f cerebrovascular events of thromboem (E-1 inhibitor, zoniporide produces clinic success in clinical trials coupled with pe agents which have been developed ba ccussion although a close scrutiny of cli ropriately continues to represent an effe- sult.	nbolic origin. ical, electrophysiologic, and micro potential for toxicity has had a neg ased on the concept of NHE-1 inh inical trial outcomes suggests tha fective, if not the most effective ap n (which can be serious in the old	ass grafting and evidenced by an increased
CALCIUM CARBONATE CALCIUM CARBONATE CALCIUM CARBONATE CALCIUM CARBONATE Asthma-like allergic con highly irrital individual, v irritant. Oth bronchial h eosinophilia and duratio of exposure ceases. The The material irritants ma The material	No evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects. Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non- allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.		
Acute Toxicity		Carcinogenicity	×
Skin Irritation/Corrosion		Reproductivity	
Serious Eye			×

~

×

× Legend: X – Data either not available or does not fill the criteria for classification

×

STOT - Repeated Exposure

Aspiration Hazard

#### Data available to make classification

# **SECTION 12 Ecological information**

Moneco 400 for Cattle, Goats and Poultry	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
monensin sodium	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
calcium carbonate	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	>14mg/l	2
	LC50	96h	Fish	>165200mg/L	4
	NOEC(ECx)	1h	Fish	4-320mg/l	4
Legend:			e ECHA Registered Substances - Ecotoxicolog		
		otox database - Aquatic Toxicity I on Data 7. METI (Japan) - Biocon	Data 5. ECETOC Aquatic Hazard Assessment I	Data 6. NITE (Japan) ·	

### DO NOT discharge into sewer or waterways.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
monensin sodium	HIGH	HIGH

# **Bioaccumulative potential**

Ingredient	Bioaccumulation
monensin sodium	HIGH (LogKOW = 5.4325)

### Mobility in soil

Ingredient	Mobility
monensin sodium	LOW (Log KOC = 10)

### **SECTION 13 Disposal considerations**

### Waste treatment methods

	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> </ul>
	<ul> <li>Return to supplier for reuse/ recycling if possible.</li> </ul>
	Otherwise:
	<ul> <li>If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to</li> </ul>
	store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
	<ul> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> </ul>
	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:
Product / Packaging	▶ Reduction
disposal	▶ Reuse
	▶ Recycling
	Disposal (if all else fails)
	This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. Shelf
	life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use,
	and recycling or reuse may not always be appropriate. In most instances the supplier of the material should be consulted.
	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.

# **SECTION 14 Transport information**

 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
monensin sodium	Not Available
calcium carbonate	Not Available

### 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
monensin sodium	Not Available
calcium carbonate	Not Available

### **SECTION 15 Regulatory information**

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

monensin sodium is found on the following regulatory lists

Australia Chemicals with non-industrial uses removed from the Australian Inventory of Chemical Substances (old Inventory)

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

#### calcium carbonate is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

### Additional Regulatory Information

Not Applicable

### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (monensin sodium)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (monensin sodium)
Korea - KECI	No (monensin sodium)
New Zealand - NZIoC	Yes
Philippines - PICCS	No (monensin sodium)
USA - TSCA	No (monensin sodium)
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	No (monensin sodium)
Legend:	Yes = All CAS declared ingredients are on the inventory

National Inventory	Status
	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	15/04/2021
Initial Date	02/02/2015

### 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
- 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