

Troy Laboratories Pty Ltd

Chemwatch: 5401-33

Version No: 2.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 2

Issue Date: 13/05/2020 Print Date: 14/05/2020 L.GHS.AUS.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	Troy Vitamin C Injection	
Synonyms	APVMA number: 50272	
Other means of identification	Not Available	
Relevant identified uses of the substance or mixture and uses advised against		

Relevant identified uses	For use as a Vitamin C supplement for horses, cattle and dogs. To be used as directed on product label. Mineral ascorbates are used as dietary supplements and food additives. Ascorbate salts may be better tolerated by the human body than the corresponding weakly acidic ascorbic acid. Ascorbates are highly reactive antioxidants used as food preservatives.
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Details of the supplier of the safety data sheet

Registered company name	Troy Laboratories Pty Ltd		
Address	37 Glendenning Road Glendenning NSW 2761 Australia		
Telephone	02 8808 3600		
Fax	02 9677 9300		
Website	www.Troylab.com.au		
Email	admin@troylab.com.au		

Emergency telephone number

Association / Organisation	Troy Laboratories Pty Ltd		
Emergency telephone numbers	02 8808 3600 (Office hours (8am – 4pm, Monday to Friday))		
Other emergency telephone numbers	Not Available		

SECTION 2 HAZARDS IDENTIFICATION

Poisons Schedule	Not Applicable		
Classification ^[1]	Germ cell mutagenicity Category 2		
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI		
abel elements			
Hazard pictogram(s)			
SIGNAL WORD	WARNING		
azard statement(s)			
H341	Suspected of causing genetic defects.		
recautionary statement(s) Pre	evention		
P201	Obtain special instructions before use.		
P281	Use personal protective equipment as required.		

P308+P313

IF exposed or concerned: Get medical advice/attention.

Page 1 continued...

Precautionary statement(s) Storage

P405

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

Store locked up.

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
134-03-2	30-60	sodium ascorbate
50-81-7	<1	ascorbic acid
Not Available	balance	Ingredients determined not to be hazardous

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	 If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. 		
Skin Contact	 If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. 		
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. 		
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. 		

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

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

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

ri such an ▶ foam.

- dry chemical powder.
- carbon dioxide.

Special hazards arising from the substrate or mixture Fire Incompatibility None known.

The incompatibility			
Advice for firefighters			
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use. 		
Fire/Explosion Hazard	 The material is not readily combustible under normal conditions. However, it will break down under fire conditions and the organic component may burn. Not considered to be a significant fire risk. Heat may cause expansion or decomposition with violent rupture of containers. Decomposes on heating and may produce toxic fumes of carbon monoxide (CO). May emit acrid smoke. 		
HAZCHEM	Not Applicable		

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	 Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Neutralise/decontaminate residue (see Section 13 for specific agent). Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. If contamination of drains or waterways occurs, advise emergency services.

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. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
Other information	 Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Suitable container	 Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. 	
Storage incompatibility	► Avoid strong acids, bases.	

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
Troy Vitamin C Injection	Not Available	Not Available	Not Available	Not Available
Ingredient	Original IDLH		Revised IDLH	
sodium ascorbate	Not Available		Not Available	
ascorbic acid	Not Available		Not Available	

OCCUPATIONAL EXPOSURE BANDING

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit		
sodium ascorbate	D	> 0.01 to ≤ 0.1 mg/m³		
ascorbic acid	E	Ξ ≤ 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.			
MATERIAL DATA				

Exposure controls

	Engineering controls are used to remove a hazard or place a be highly effective in protecting workers and will typically be The basic types of engineering controls are: Process controls which involve changing the way a job activ Enclosure and/or isolation of emission source which keeps a "adds" and "removes" air in the work environment. Ventilatio ventilation system must match the particular process and ch Employers may need to use multiple types of controls to pre General exhaust is adequate under normal operating conditi essential to obtain adequate protection. Provide adequate ve workplace possess varying "escape" velocities which, in turr	independent of worker interactions to provide this high level ity or process is done to reduce the risk. a selected hazard "physically" away from the worker and ven n can remove or dilute an air contaminant if designed proper emical or contaminant in use. vent employee overexposure. ons. If risk of overexposure exists, wear SAA approved resp entilation in warehouse or closed storage areas. Air contamir	of protection. tilation that strategically dy. The design of a irator. Correct fit is nants generated in the	
	remove the contaminant.			
	Type of Contaminant:	Air Speed:		
	solvent, vapours, degreasing etc., evaporating from tank (in still air)	0.25-0.5 m/s (50-100 f/min)	
	aerosols, fumes from pouring operations, intermittent cont drift, plating acid fumes, pickling (released at low velocity i		0.5-1 m/s (100-200 f/min.)	
Appropriate engineering controls	direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion)	conveyer loading, crusher dusts, gas discharge (active	1-2.5 m/s (200-500 f/min)	
	grinding, abrasive blasting, tumbling, high speed wheel ge very high rapid air motion).	nerated dusts (released at high initial velocity into zone of	2.5-10 m/s (500-2000 f/min.)	
	Within each range the appropriate value depends on:			
	Lower end of the range	Upper end of the range		
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents		
	2: Contaminants of low toxicity or of nuisance value only	nts of low toxicity or of nuisance value only 2: Contaminants of high toxicity		
	3: Intermittent, low production.	3: High production, heavy use		
	4: Large hood or large air mass in motion 4: Small hood - local control only			
	Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.			
Personal protection				
Eye and face protection	the wearing of lenses or restrictions on use, should be c and adsorption for the class of chemicals in use and an their removal and suitable equipment should be readily remove contact lens as soon as practicable. Lens should	lenses may absorb and concentrate irritants. A written policy reated for each workplace or task. This should include a revi account of injury experience. Medical and first-aid personnel available. In the event of chemical exposure, begin eye irriga d be removed at the first signs of eye redness or irritation - le inds thoroughly. [CDC NIOSH Current Intelligence Bulletin 59	iew of lens absorption I should be trained in ttion immediately and ens should be removed in	
Skin protection	See Hand protection below			
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber 			
Body protection	See Other protection below			
Other protection	 Overalls. P.V.C. apron. Barrier cream. Skin cleansing cream. Eye wash unit. 			

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the: **"Forsberg Clothing Performance Index".** The effect(s) of the following substance(s) are taken into account in the *computer*-

Respiratory protection

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

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors

generated selection:

Troy Vitamin C Injection	Trov	Vitamin	C In	iection
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Material	CPI
BUTYL	A
NEOPRENE	A
VITON	А
BUTYL/NEOPRENE	С
IAT+NEOPR+NITRILE	С
IATURAL RUBBER	С
IATURAL+NEOPRENE	С
EOPRENE/NATURAL	С
TRILE	С
E/EVAL/PE	С
VA	С
VC	С
EFLON	С
/ITON/NEOPRENE	С

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

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

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

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

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

(defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	A-AUS / Class1	-
up to 50	1000	-	A-AUS / Class 1
up to 50	5000	Airline *	-
up to 100	5000	-	A-2
up to 100	10000	-	A-3
100+			Airline**

* - Continuous Flow ** - Continuous-flow or positive pressure demand 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)

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

Appearance	Appearance Clear, colourless to slight yellow liquid with mild odour; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	1.26
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	6.8-7.2	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	 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

Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.			
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.			
Skin Contact	Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.			
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).			
Chronic	Strong evidence exists that the substance may cause irreversible but non-let Limited evidence suggests that repeated or long-term occupational exposure biochemical systems.	•		
	ΤΟΧΙΟΙΤΥ	RRITATION		
Troy Vitamin C Injection		lot Available		
	TOXICITY	IRRITATION		
sodium ascorbate	Oral (rat) LD50: 16300 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]		
	s	Skin: no adverse effect observed (not irritating) ^[1]		
	TOXICITY	RRITATION		
ascorbic acid	Oral (rat) LD50: 11900 mg/kg ^[2] N	lot Available		
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity specified data extracted from RTECS - Register of Toxic Effect of chemical S	*	ed from manufacturer's SDS. Unless otherwise	
SODIUM ASCORBATE	NOTE: Substance has been shown to be mutagenic in at least one assay, or cellular DNA.	r belongs to a farr	ily of chemicals producing damage or change to	
ASCORBIC ACID	Asthma-like symptoms may continue for months or even years after exposur condition known as reactive airways dysfunction syndrome (RADS) which ca compound. Key criteria for the diagnosis of RADS include the absence of pre onset of persistent asthma-like symptoms within minutes to hours of a docum spirometry, with the presence of moderate to severe bronchial hyperreactivity lymphocytic inflammation, without eosinophilia, have also been included in th irritating inhalation is an infrequent disorder with rates related to the concentr Industrial bronchitis, on the other hand, is a disorder that occurs as result of particulate in nature) and is completely reversible after exposure ceases. The production.	an occur following eceding respirator nented exposure y on methacholing he criteria for diag ration of and dura exposure due to h	exposure to high levels of highly irritating ry disease, in a non-atopic individual, with abrupt to the irritant. A reversible airflow pattern, on e challenge testing and the lack of minimal inosis of RADS. RADS (or asthma) following an tion of exposure to the irritating substance. high concentrations of irritating substance (often	
ASCORBIC ACID	condition known as reactive airways dysfunction syndrome (RADS) which ca compound. Key criteria for the diagnosis of RADS include the absence of pre- onset of persistent asthma-like symptoms within minutes to hours of a docum spirometry, with the presence of moderate to severe bronchial hyperreactivity lymphocytic inflammation, without eosinophilia, have also been included in th irritating inhalation is an infrequent disorder with rates related to the concentr Industrial bronchitis, on the other hand, is a disorder that occurs as result of o particulate in nature) and is completely reversible after exposure ceases. The production.	an occur following eceding respirator nented exposure y on methacholing he criteria for diag ration of and dura exposure due to h	exposure to high levels of highly irritating ry disease, in a non-atopic individual, with abrupt to the irritant. A reversible airflow pattern, on e challenge testing and the lack of minimal inosis of RADS. RADS (or asthma) following an tion of exposure to the irritating substance. high concentrations of irritating substance (often	
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Acute Toxicity Skin Irritation/Corrosion	condition known as reactive airways dysfunction syndrome (RADS) which ca compound. Key criteria for the diagnosis of RADS include the absence of pre- onset of persistent asthma-like symptoms within minutes to hours of a docum spirometry, with the presence of moderate to severe bronchial hyperreactivity lymphocytic inflammation, without eosinophilia, have also been included in th irritating inhalation is an infrequent disorder with rates related to the concentre Industrial bronchitis, on the other hand, is a disorder that occurs as result of particulate in nature) and is completely reversible after exposure ceases. The production.	an occur following eceding respirator mented exposure y on methacholing he criteria for diag ration of and dura exposure due to h e disorder is char-	exposure to high levels of highly irritating ry disease, in a non-atopic individual, with abrupt to the irritant. A reversible airflow pattern, on e challenge testing and the lack of minimal nosis of RADS. RADS (or asthma) following an tion of exposure to the irritating substance. high concentrations of irritating substance (often acterised by dyspnea, cough and mucus	
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SECTION 12 ECOLOGICAL INFORMATION

Troy Vitamin C Injection	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
sodium ascorbate	LC50	96	Fish	1-20mg/L	2
	EC50	48	Crustacea	74mg/L	2
	EC50	72	Algae or other aquatic plants	>74mg/L	2
	NOEC	72	Algae or other aquatic plants	>=74mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
ascorbic acid	LC50	96	Fish	1.152mg/L	3

	EC50 96	Algae or other aquatic plants	140.290mg/L 3	
Legend:	,	xtracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite 3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment		
	Data 6 NITE (Japan) - Bioconce	entration Data 7 METL (Japan) - Bioconcentration Data 8 Vendor Data		

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ascorbic acid	LOW	LOW
Bioaccumulative potential		
Ingredient	Bioaccumulation	

ascorbic acid

Mobility in soil

Ingredient	Mobility
ascorbic acid	LOW (KOC = 10)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal	 DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material). Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.
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SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

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

LOW (LogKOW = -1.85)

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

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

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

Not Applicable

SECTION 15 REGULATORY INFORMATION

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

SODIUM ASCORBATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

ASCORBIC ACID IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

National Inventory Status

National Inventory	Status
Australia - AICS	Yes
Canada - DSL	Yes
Canada - NDSL	No (sodium ascorbate; ascorbic acid)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (sodium ascorbate)
Korea - KECI	Yes
New Zealand - NZIoC	Yes

Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	Yes	
Vietnam - NCI	Yes	
Russia - ARIPS	Yes	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)	

SECTION 16 OTHER INFORMATION

Revision Date	13/05/2020
Initial Date	13/05/2020

SDS Version Summary

Version	Issue Date	Sections Updated
2.1.1.1	13/05/2020	Physical Properties

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_\circ IDLH: Immediately Dangerous to Life or Health Concentrations 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 This document is copyright.

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