

Livamol Blu International Animal Health Products Pty Ltd

Chemwatch: 4856-55

Version No: 8.1

Chemwatch Hazard Alert Code: 2

Issue Date: **10/03/2023** Print Date: **28/08/2024** S.GHS.AUS.EN.E

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

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

Product Identifier

Product name	Livamol Blu
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

	Colour whitener and brightener for animals. Shampoo the animal first. Dilute product as per directions then apply to wet body,
Relevant identified uses	mane/tail or spot wash. Work in completely, soak for 5 minutes then rinse thoroughly and dry. Avoid contact and protect animal's
	eyes when using.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	International Animal Health Products Pty Ltd	
Address	Healey Circuit Huntingwood NSW 2148 Australia	
Telephone	+61 2 9672 7944	
Fax	2 9672 7988	
Website	ww.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	Not Applicable
Classification ^[1]	Serious Eye Damage/Eye Irritation Category 2A, Carcinogenicity Category 2, Hazardous to the Aquatic Environment Acute Hazard Category 2
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	Warning

Hazard statement(s)

H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H401	Toxic to aquatic life.

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P273	Avoid release to the environment.
P264	Wash all exposed external body areas thoroughly after handling.

Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P337+P313	If eye irritation persists: Get medical advice/attention.	

Precautionary statement(s) Storage

P405	Store locked up.

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
9004-82-4	5-15	sodium lauryl ether sulfate
68603-42-9	1-10	coconut diethanolamide
Not Available	balance	Ingredients determined not to be hazardous
Legend:	· · · · ·	2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - awn from C&L * EU IOELVs available

SECTION 4 First aid measures

Eye Contact	 If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs:

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	 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:

- ▶ foam.
- dry chemical powder.
- carbon dioxide.

Special hazards arising from the substrate or mixture			
Fire Incompatibility	None known.		
Advice for firefighters			
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. 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 emulsion is not combustible under normal conditions. However, it will break down under fire conditions and the hydrocarbon component will burn. Decomposes on heating and produces toxic fumes of: carbon monoxide (CO) carbon dioxide (CO2) sulfur oxides (SOx) other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes.		
HAZCHEM	Not Applicable		

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. 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

Precautions for safe handling

Safe handling	 DO NOT allow clothing wet with material to stay in contact with skin Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. 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.

Conditions for safe storage, including any incompatibilities

Suitable container	 750mL plastic bottle; 5L plastic jerry can. Check that containers are clearly labelled and free from leaks Packaging as recommended by manufacturer.
Storage incompatibility	None known

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
Livamol Blu	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
a a divum lavum di athan av ulfata	AL 1 A			
sodium lauryl ether sulfate	Not Available		Not Available	

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit		
sodium lauryl ether sulfate	E	≤ 0.01 mg/m³		
coconut diethanolamide	E	≤ 0.1 ppm		
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	None required when handling small quantities. OTHERWISE: Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls are used to protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. An approved self contained breathing apparatus (SCBA) may be required in special circumstances. Correct fit is essential to ensure adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant. Type of Contaminants Air Speed: 0.25-0.5 m/s (50- 100 frmin.) solvent, vapours, degreasing etc., evaporating from tank (in still air). 0.5-1 m/s (100- 200 frmin.) irice typay, spray painting in shallow booths, drum			
Individual protection measures, such as personal protective equipment				
Eye and face protection	 No special equipment for minor exposure i.e. when handling small quantities. OTHERWISE: Safety glasses with side shields. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. 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], [AS/NZS 1336 or national equivalent] 			
Skin protection	See Hand protection below			
Hands/feet protection	No special equipment needed when handling small quantities OTHERWISE : Wear chemical protective gloves, e.g. PVC.	S.		
Body protection	See Other protection below			
Other protection	No special equipment needed when handling small quantities. OTHERWISE: • Overalls. • Barrier cream. • Eyewash 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 $\ensuremath{\textit{computer-generated}}$ selection:

Livamol Blu

Material	CPI
BUTYL	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NITRILE	С
PVA	С
VITON	С

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

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

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

 * Where the glove is to be used on a short term, casual or infrequent basis,

factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Ansell Glove Selection

Glove — In order of recommendation
AlphaTec 02-100
AlphaTec® 15-554
AlphaTec® Solvex® 37-185
AlphaTec® 58-008
AlphaTec® 58-735
DermaShield™ 73-711
MICROFLEX® 63-864
MICROFLEX® 93-244
MICROFLEX® 93-252
MICROFLEX® 93-260

The suggested gloves for use should be confirmed with the glove supplier.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Respiratory protection

Type AK-P 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 (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	AK-AUS / Class1 P2	-
up to 50	1000	-	AK-AUS / Class 1 P2
up to 50	5000	Airline *	-
up to 100	5000	-	AK-2 P2
up to 100	10000	-	AK-3 P2
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 deqC)

- 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

76ak-p()

Appearance Blue liquid with a c	haracteristic odour; mixes with water.	
Physical state Liquid	Relative density (Water = 1)	0.97-1.07
Odour Not Available	Partition coefficient n- octanol / water	Not Available
Odour threshold Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied) 9.56	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C) Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	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
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available

SECTION 10 Stability and reactivity

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

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled	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. Not normally a hazard due to non-volatile nature of product		
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.		
Skin Contact	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Non-ionic surfactants cause less irritation than other surfactants as they have less ability to denature protein in the skin. Anionic surfactants can cause skin redness and pain, as well as a rash. Cracking, scaling and blistering can occur. Open cuts, abraded or irritated skin should not be exposed to this material Animal testing showed that a 30% fatty acid amide was a moderate skin irritant. In products intended for prolonged contact with the skin, the concentration of cocoamide DEA should not exceed 5%.		
Eye	This material can cause eye irritation and damage in some persons. Non-ionic surfactants can cause numbing of the cornea, which masks discomfort normally caused by other agents and leads to corneal injury. Irritation varies depending on the duration of contact, the nature and concentration of the surfactant. Direct eye contact with some anionic surfactants in high concentration can cause severe damage to the cornea. Low concentrations can cause discomfort, excess blood flow, and corneal clouding and swelling. Recovery may take several days. Animal testing shows that low concentrations of fatty acid amides, such as coccamide DEA, are severely irritating to the eyes. Eye contact with fatty acid diethanolamides and monoethanolamides may seriously damage the eyes.		
Chronic	There has been concern that this material can cause cancer or n Substance accumulation, in the human body, may occur and ma occupational exposure. There is some evidence that inhaling this product is more likely to the general population. There is limited evidence that, skin contact with this product is m compared to the general population. Prolonged or repeated skin contact may cause degreasing, follow	y cause some concern following repeated or long-term o cause a sensitisation reaction in some persons compared to ore likely to cause a sensitisation reaction in some persons	
Livamol Blu	TOXICITY Not Available	IRRITATION Not Available	
		NULAVAIIADIE	
sodium lauryl ether sulfate	ΤΟΧΙΟΙΤΥ	IRRITATION	
eessen nuuryr enner eunute	Oral (Rat) LD50: 1600 mg/kg ^[2]	Skin (rabbit):25 mg/24 hr moderate	
coconut diethanolamide	τοχιςιτγ	IRRITATION	

	Inhalation (Rat) LC50: 44 ppm4h ^[2]	Not Available	
	Oral (Rat) LD50: 2700 mg/kg ^[2]		
Legend:	1. Value obtained from Europe ECHA Registere Unless otherwise specified data extracted from	=	
SODIUM LAURYL ETHER SULFATE	* [CESIO] Polyethers (such as ethoxylated surfactants and polyethylene glycols) are highly susceptible to being oxidized in the air. They then form complex mixtures of oxidation products. Animal testing reveals that whole the pure, non-oxidised surfactant is non-sensitizing, many of the oxidation products are sensitisers. The oxidization products also cause irritation. Alcohol ethoxysulfates (AES) are of low acute toxicity. Neat AES are irritant to the skin and eyes.		
COCONUT DIETHANOLAMIDE	*Ethoquad C/12 SDS In a study of dermal application in mice, coconur incidence of hepatocellular carcinoma and hepa incidence of renal tubule adenoma and carcinom rats, no increase in tumour incidence was obser Tumours of the kidney and hepatoblastoma are The carcinogenic effects of the coconut oil dieth diethanolamine (18.2%) in the solutions tested. Mechanistic data are very weak to evaluate the According to IARC: Coconut oil diethanolamine condensate is possi Laboratory testing shows that the fatty acid amic allergy to this substance is becoming more com Alkanolamides are manufactured by condensati The chemicals in the Fatty Nitrogen Derived (FN environmental fate and toxicity. Its low acute or show no apparent organ specific toxicity, mutation The material may produce severe irritation to the irritants may produce conjunctivitis. DEA has low acute toxicity if ingested orally or a It may affect sperm production, cause anaemia a humans; though there is evidence that it may can Asthma-like symptoms may continue for montss allergic condition known as reactive airways dys highly irritating compound. Main criteria for diagu	atocellular adenoma in males and ma combined was also increased rved. rare spontaneous neoplasms in a anolamine condensate used in the carcinogenic potential of coconut ibly carcinogenic to humans (Gro de, cocoamide DEA, causes occu- mon. on of diethanolamine and the me ND) Amides are generally similar i al toxicity is well established acrosson, reproductive or developmenta e eye causing pronounced inflam applied on the skin. It can cause r and damage the liver and kidney, ause cancer in mice, and damage s or even years after exposure to	females, and of hepatoblastoma in males. The in males. In a study of dermal application in experimental animals. le cancer bioassay may be due to the levels of oil diethanolamine condensate per se up 2B) upational allergic contact dermatitis, and that thyl ester of long chain fatty acids. In terms of physical and chemical properties, se all subcategories by the available data and al defects. mation. Repeated or prolonged exposure to noderate skin irritation and severe eye irritation. It has not been shown to cause cancer in to the foetus at levels toxic to the mother. the material ends. This may be due to a non-
	individual, with sudden onset of persistent asthm irritant. Other criteria for diagnosis of RADS inclu- bronchial hyperreactivity on methacholine challe eosinophilia. RADS (or asthma) following an irrit and duration of exposure to the irritating substar of exposure due to high concentrations of irritati ceases. The disorder is characterized by difficul WARNING: This substance has been classified	na-like symptoms within minutes ude a reversible airflow pattern of enge testing, and the lack of minir tating inhalation is an infrequent of nce. On the other hand, industrial ng substance (often particles) an ty breathing, cough and mucus p	e of previous airways disease in a non-atopic to hours of a documented exposure to the n lung function tests, moderate to severe mal lymphocytic inflammation, without disorder with rates related to the concentration of bronchitis is a disorder that occurs as a result d is completely reversible after exposure roduction.
SODIUM LAURYL ETHER SULFATE & COCONUT DIETHANOLAMIDE	irritant. Other criteria for diagnosis of RADS inclu- bronchial hyperreactivity on methacholine challe eosinophilia. RADS (or asthma) following an irrit and duration of exposure to the irritating substar of exposure due to high concentrations of irritati ceases. The disorder is characterized by difficult	na-like symptoms within minutes ude a reversible airflow pattern of enge testing, and the lack of minir tating inhalation is an infrequent of nce. On the other hand, industrial ng substance (often particles) an ty breathing, cough and mucus p by the IARC as Group 2B: Possil in literature search.	e of previous airways disease in a non-atopic to hours of a documented exposure to the n lung function tests, moderate to severe nal lymphocytic inflammation, without disorder with rates related to the concentration of bronchitis is a disorder that occurs as a result d is completely reversible after exposure roduction.
SULFATE & COCONUT	irritant. Other criteria for diagnosis of RADS inclusion bronchial hyperreactivity on methacholine challe eosinophilia. RADS (or asthma) following an irrit and duration of exposure to the irritating substar of exposure due to high concentrations of irritatic ceases. The disorder is characterized by difficult WARNING : This substance has been classified No significant acute toxicological data identified The material may produce moderate eye irritatic	na-like symptoms within minutes ude a reversible airflow pattern of enge testing, and the lack of minir tating inhalation is an infrequent of nce. On the other hand, industrial ng substance (often particles) an ty breathing, cough and mucus p by the IARC as Group 2B: Possil in literature search.	e of previous airways disease in a non-atopic to hours of a documented exposure to the n lung function tests, moderate to severe nal lymphocytic inflammation, without disorder with rates related to the concentration of bronchitis is a disorder that occurs as a result d is completely reversible after exposure roduction.
SULFATE & COCONUT DIETHANOLAMIDE	irritant. Other criteria for diagnosis of RADS inclusion bronchial hyperreactivity on methacholine challe eosinophilia. RADS (or asthma) following an irrit and duration of exposure to the irritating substar of exposure due to high concentrations of irritatic ceases. The disorder is characterized by difficult WARNING: This substance has been classified No significant acute toxicological data identified The material may produce moderate eye irritatic produce conjunctivitis.	na-like symptoms within minutes ude a reversible airflow pattern of enge testing, and the lack of minir tating inhalation is an infrequent of nce. On the other hand, industrial ng substance (often particles) an ty breathing, cough and mucus p by the IARC as Group 2B: Possil in literature search. on leading to inflammation. Repea	e of previous airways disease in a non-atopic to hours of a documented exposure to the n lung function tests, moderate to severe nal lymphocytic inflammation, without disorder with rates related to the concentration of bronchitis is a disorder that occurs as a result d is completely reversible after exposure roduction.
SULFATE & COCONUT DIETHANOLAMIDE Acute Toxicity	irritant. Other criteria for diagnosis of RADS inclubronchial hyperreactivity on methacholine challe eosinophilia. RADS (or asthma) following an irrit and duration of exposure to the irritating substar of exposure due to high concentrations of irritatic ceases. The disorder is characterized by difficult WARNING: This substance has been classified No significant acute toxicological data identified The material may produce moderate eye irritatic produce conjunctivitis.	na-like symptoms within minutes ude a reversible airflow pattern of enge testing, and the lack of minir tating inhalation is an infrequent of nce. On the other hand, industrial ng substance (often particles) an ty breathing, cough and mucus p by the IARC as Group 2B: Possi in literature search. on leading to inflammation. Repea	e of previous airways disease in a non-atopic to hours of a documented exposure to the n lung function tests, moderate to severe mal lymphocytic inflammation, without disorder with rates related to the concentration of bronchitis is a disorder that occurs as a result d is completely reversible after exposure roduction. bly Carcinogenic to Humans.
SULFATE & COCONUT DIETHANOLAMIDE Acute Toxicity Skin Irritation/Corrosion Serious Eye	irritant. Other criteria for diagnosis of RADS inclusion bronchial hyperreactivity on methacholine challe eosinophilia. RADS (or asthma) following an irrit and duration of exposure to the irritating substar of exposure due to high concentrations of irritatic ceases. The disorder is characterized by difficult WARNING: This substance has been classified No significant acute toxicological data identified The material may produce moderate eye irritatic produce conjunctivitis.	na-like symptoms within minutes ude a reversible airflow pattern of enge testing, and the lack of minir tating inhalation is an infrequent of nce. On the other hand, industrial ng substance (often particles) an ty breathing, cough and mucus p by the IARC as Group 2B: Possil in literature search. on leading to inflammation. Repeat	e of previous airways disease in a non-atopic to hours of a documented exposure to the in lung function tests, moderate to severe mal lymphocytic inflammation, without disorder with rates related to the concentration of bronchitis is a disorder that occurs as a result d is completely reversible after exposure roduction.

Legend:

X − Data either not available or does not fill the criteria for classification
 ✓ − Data available to make classification

SECTION 12 Ecological information

Toxicity Endpoint Test Duration (hr) Species Value Source Livamol Blu Not Not Not Not Available Not Available Available Available Available sodium lauryl ether sulfate Endpoint Test Duration (hr) Species Value Source Continued...

	EC50	48h	Crustacea	2.43- 4.01mg/l	4
	NOEC(ECx)	48h	Fish	0.26mg/L	5
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	2.2mg/l	1
coconut diethanolamide	EC50	48h	Crustacea	2.25mg/l	1
	LC50	96h	Fish	2.52mg/l	1
	NOEC(ECx)	504h	Crustacea	0.07mg/l	1
	EC50	96h	Algae or other aquatic plants	2.2mg/l	1
Legend:	Extracted from	1. IUCLID Toxicity Data 2. Europe	ECHA Registered Substances - Ecotoxicologica	Information - Aqua	ntic Toxici
	,	tox database - Aquatic Toxicity Da n Data 7. METI (Japan) - Bioconce	ta 5. ECETOC Aquatic Hazard Assessment Data ntration Data 8. Vendor Data	e 6. NITE (Japan) -	

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

Bioaccumulative potential

Ingredient	Bioaccumulation	
	No Data available for all ingredients	
Mobility in soil		
Ingredient	Mobility	
	No Data available for all ingredients	

SECTION 13 Disposal considerations

Product / Packaging disposal	 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. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. 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. 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 sever 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

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
sodium lauryl ether sulfate	Not Available
coconut diethanolamide	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
sodium lauryl ether sulfate	Not Available
coconut diethanolamide	Not Available

SECTION 15 Regulatory information

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

sodium lauryl ether sulfate is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

coconut diethanolamide is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

Additional Regulatory Information

Not Applicable

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (sodium lauryl ether sulfate; coconut diethanolamide)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (sodium lauryl ether sulfate)
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

SECTION 16 Other information

Revision Date 10/03/2023

Livamol Blu

Initial Date 20/05/2013

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

New Zealand HSNO Approval: HSR002521;

Animal Nutritional and Animal Care Products Group Standard 2017