Ranvet's Topline FX

Ranvet Pty Ltd

Chemwatch: 4787-77

Version No: 7.1 Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements Chemwatch Hazard Alert Code: 2

Issue Date: **09/10/2024** Print Date: **09/12/2024** L.GHS.AUS.EN.E

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

Product Identifier	
Product name	Ranvet's Topline FX
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

Relevant identified uses	Fortified protein supplement for muscle building in horses.
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Details of the manufacturer or supplier of the safety data sheet

Registered company name	Ranvet Pty Ltd	
Address	10-12 Green Street Banksmeadow NSW 2019 Australia	
Telephone	+61 2 9666 1744	
Fax	+61 2 9666 1755	
Website	https://www.ranvet.com.au/other_msds.htm	
Email	info@ranvet.com.au	

Emergency telephone number

Association / Organisation	Ranvet Pty Ltd
Emergency telephone numbers	+61 417 580 980
Other emergency telephone numbers	Not Available

SECTION 2 Hazards identification

Classification of the substance or mixture

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

Chemwatch Hazard Ratings

	Min	Max	
Flammability	1		
Toxicity	0		0 = Minimum
Body Contact	2		1 = Low
Reactivity	1		2 = Moderate
Chronic	0		3 = High 4 = Extreme

Poisons Schedule	Not Applicable
Classification ^[1]	Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 1
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)	
H315	Causes skin irritation.
H318	Causes serious eye damage.
Precautionary statement(s) Pre	evention
P280	Wear protective gloves, protective clothing, eye protection and face protection.

P264	Wash all exposed external body areas thoroughly after handling.
F204	

Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P310	Immediately call a POISON CENTER/doctor/physician/first aider.	
P302+P352	IF ON SKIN: Wash with plenty of water.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
Not Available	<70	blend of Soybean and Canola Meal
471-34-1	<10	calcium carbonate
Not Available	<10	potassium salts
Not Available	<10	calcium phosphate salts
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: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. 	
Skin Contact	If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. 	
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. 	
Ingestion	 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

for phosphate salts intoxication:

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
- Ingestion of large quantities of phosphate salts (over 1.0 grams for an adult) may cause an osmotic catharsis resulting in diarrhoea and probable abdominal cramps. Larger doses such as 4-8 grams will almost certainly cause these effects in everyone. In healthy individuals most of the ingested salt will be excreted in the faeces with the diarrhoea and, thus, not cause any systemic toxicity. Doses greater than 10 grams hypothetically may cause systemic toxicity.
- Treatment should take into consideration both anionic and cation portion of the molecule.
- All phosphate salts, except calcium salts, have a hypothetical risk of hypocalcaemia, so calcium levels should be monitored.

SECTION 5 Firefighting measures

Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
Advice for firefighters	
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water courses. Use water delivered as a fine spray to control fire and cool adjacent area. 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	 Combustible solid which burns but propagates frame with difficulty: it is estimated that most organic dusts are combustible (circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions. Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions). Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. fiame or spark, will cause fire or explosion. Dust clouds generated by the fine grinding of the solid are a particular hazard, accumulations of fine dust (420 micron or less) may burn rapidly and fercely il ignited - particles exceeding this limit will generally not form flammable dust clouds; once initiated, however, larger particules up to 1400 microns diameter will contribute to the propagation of an 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 of practical use; - this is because of the inherent difficulty of achieving theorybrid) mixtures may be formed with combustible dusts. Ignitable mixtures will increase the rate of explosion pressure rise and and thy flyphid) mixtures may be formed with combustible dusts. Ignitable mixtures will increase the rate of explosion pressure rise and explosion enters the surrounding area, it will disturb any settled dust layers. forming a second dust cloud, and often initiate a much supe products; this in turn creates a subsequent pressure rise of explosion force to damage or rupture the plant. If the shote way form the primary explosion enters the surroundi
HAZCHEM	Inor Abbilgania

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 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. Sweep up, shovel up or Vacuum up (consider explosion-proof machines designed to be grounded during storage and use). Place spilled material in clean, dry, sealable, labelled container.
Major Spills	 Moderate hazard. CAUTION: Advise personnel in area. Alert Emergency Services and tell them location and nature of hazard. Control personal contact by wearing protective clothing. Prevent, by any means available, spillage from entering drains or water courses. Recover product wherever possible. 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. ALWAYS: Wash area down with large amounts of water and prevent runoff into drains. 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	 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.

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	 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. Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions) Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame. Establish good housekeeping practices. Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds. 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 1732 in (0.8 mm) thick can be sufficient to warrant immediate cleaning of the area. Do not use air hoses for cleaning. Minimise dry sweeping to avoid generation of dust clouds. Vacuum dust-accumulating surfaces and remove to a chemical disposal area. Vacuums with explosion-proof motors should be used. Control sources of static electricity. Dusts or their packages may accumulate static charges, and static discharge can be a source of ignition. Solids handling systems must be designed in accordance with applicable standards (e.g. NFPA including 654 and 77) and other national guidance. Do not emp
Other information	 Store in original containers. Keep containers securely sealed. Store in a cool, dry area protected from environmental extremes. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. For major quantifies: Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams). Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities.

Conditions for safe storage, including any incompatibilities

Suitable container	 Polyethylene or polypropylene container. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	Avoid reaction with oxidising agents

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

Source	Ingredient	Material name	TWA	STEL	Peak	Note	es
Australia Exposure Standards	calcium Calcium 10 carbonate carbonate mg		10 mg/m3	Not Available	Not Availab		his value is for inhalable dust containing no estos and < 1% crystalline silica.
Emergency Limits							
Ingredient	TEEL-1		TEEL	TEEL-2			TEEL-3
calcium carbonate	45 mg/m3		210 m	210 mg/m3			1,300 mg/m3
Ingredient	gredient Original IDLH Revised IDLH						
calcium carbonate	Not Available	Not Available			Not	Not Available	

MATERIAL DATA

For calcium carbonate:

The TLV-TWA is thought to be protective against the significant risk of physical irritation associated with exposure.

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering contro can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.
controis	Can be rightly elective in protecting workers and will typically be independent of worker interactions to provide this right ever of protection. The basic types of engineering controls are:
	Process controls which involve changing the way a job activity or process is done to reduce the risk.
	Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that
	strategically "adds" and "removes" air in the work environment. 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 is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction.
	Exhaust ventilation should be designed to prevent accumulation and recirculation of particulates in the workplace.
	If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered. Such protection might consist of:
	(a): particle dust respirators, if necessary, combined with an absorption cartridge;
	(b): filter respirators with absorption cartridge or canister of the right type;
	(c): fresh-air hoods or masks

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- Build-up of electrostatic charge on the dust particle, may be prevented by bonding and grounding.
- Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as explosion venting.

Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to efficiently remove the contaminant.

Type of Contaminant:	Type of Contaminant:				
direct spray, spray painting in shallow booths, drum filling, (active generation into zone of rapid air motion)	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)				
grinding, abrasive blasting, tumbling, high speed wheel ge zone of very high rapid air motion).	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).				
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	2: Contaminants of high toxicity				
2. Contaminants of low toxicity of of huisance value only	2. Containing of high toxicity				
3: Intermittent, low production.	3: High production, heavy use				

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 4-10 m/s (800-2000 ft/min) for extraction of crusher dusts generated 2 metres 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.

Individual protection measures, such as personal protective equipment

Example updates with alse shields. Provide updates with alse shields. Eye and face protection Contract lenses may pose a special hazard; soft contact lenses may absorb and concentrate infraints. A written policy document, describing the weating of lenses or protection in a sub and an account of Paipy reperinder. Medical and Instability personnel describing the weating of lenses or protection to the sub absorbability of each workplace or thats. This should include a review of lens should be created for should be created for the sub absorbability of the stabsorbability of the stabsorbabili		
 Hands/feet protection Final selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to marking a trans of the calculated in marking a final choice. Personal hygien is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dired throughly in the forty be is dependent on usage. Important factors in the selection of gloves include:	Eye and face protection	 Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent] Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. 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
 Hands/let protection Hands/let protection For general guide that should be replaced. When making a glowe should be replaced. Hands/let protection Hands/let protection	Skin protection	See Hand protection below
		 manufacturer. Where the "chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. 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: the exact break through the glove material. glove thickness and device tip were steaded 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 2161.1.0.1 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. Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are rated as: Excellent when breakthrough time > 20 min For general applications, gloves with a increase strip and application gloves with a protection of glove resistance to a specific chemical, as the permeation of the glove with a protection of a glove resistance to a specific chemical, as the permeation gloves should be replaced. Receive the obseckee and thickness typically greater than 0.35 mm, are recommended. Inhord by ematerial degrades For general

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alls. Capron. er cream. cleansing cream. wash unit.

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)

 \cdot 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

Thin, dark brown pellet.		
Divided Solid	Relative density (Water = 1)	Not Available
Not Available	Partition coefficient n-octanol / water	Not Available
Not Available	Auto-ignition temperature (°C)	Not Available
Not Available	Decomposition temperature (°C)	Not Available
Not Available	Viscosity (cSt)	Not Available
Not Available	Molecular weight (g/mol)	Not Applicable
Not Available	Taste	Not Available
Not Available	Explosive properties	Not Available
Not Available	Oxidising properties	Not Available
Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
Not Available	Volatile Component (%vol)	Negligible
Negligible	Gas group	Not Available
Not Available	pH as a solution (1%)	Not Available
Not Available	VOC g/L	Not Available
Not Available	Ignition Distance (cm)	Not Available
Not Available	Flame Duration (s)	Not Available
Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available
	Divided Solid Not Available Not Available	Divided Solid Relative density (Water = 1) Not Available Partition coefficient n-octanol / water Not Available Auto-ignition temperature (°C) Not Available Decomposition temperature (°C) Not Available Decomposition temperature (°C) Not Available Viscosity (CSt) Not Available Molecular weight (g/mol) Not Available Molecular weight (g/mol) Not Available Explosive properties Not Available Oxidising properties Not Available Surface Tension (dyn/cm or mN/m) Not Available Gas group Not Available VOC g/L Not Available VOC g/L Not Available VOC g/L Not Available Surface Tension (dyn/cm or mN/m)

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	See section 5

products

SECTION 11 Toxicological information

ation on toxicological ef		access and conditions such as amply	reame or obranic branchitic, may incur further	
Inhaled	Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.			
Ingestion	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	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.			
Eye	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or ma produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.			
Chronic	Limited evidence suggests that repeated or long-term biochemical systems. Pure calcium carbonate does not produce pneumocon As mined, unsterilised particulates can carry bacteria i Long term exposure to high dust concentrations may c micron penetrating and remaining in the lung. A prime	iosis probably being eliminated from nto the air passages and lungs, proc cause changes in lung function (i.e.)	n the lungs slowly by solution. ducing infection and bronchitis. oneumoconiosis) caused by particles less than 0	
	motor penetrating and remaining in the long. A prime	symptom is breathlessness. Lung s		
Ranvet's Topline FX	TOXICITY Not Available	IRRITATION Not Available		
	dermal (rat) LD50: >2000 mg/kg ^[1]		: 0.75 mg/24h - SEVERE	
calcium carbonate	Inhalation (Rat) LC50: >3 mg/l4h ^[1]		rse effect observed (not irritating) ^[1]	
	Oral (Rat) LD50: >2000 mg/kg ^[1]	Skin (rabbit): 500 mg/24h-moderate Skin: no adverse effect observed (not irritating) ^[1]		
Legend:	1. Value obtained from Europe ECHA Registered Subs specified data extracted from RTECS - Register of Tox		ained from manufacturer's SDS. Unless otherwi	
Ranvet's Topline FX	No significant acute toxicological data identified in litera	ature search.		
Ranvet's Topline FX	No significant acute toxicological data identified in liter. No evidence of carcinogenic properties. No evidence of Asthma-like symptoms may continue for months or ever condition known as reactive airways dysfunction syndfr compound. Main criteria for diagnosing RADS include of persistent asthma-like symptoms within minutes to f include a reversible airflow pattern on lung function tes and the lack of minimal lymphocytic inflammation, with disorder with rates related to the concentration of and is a disorder that occurs as a result of exposure due to reversible after exposure ceases. The disorder is chars: The material may produce severe irritation to the eye of produce conjunctivitis.	of mutagenic or teratogenic effects. en years after exposure to the mater rome (RADS) which can occur after the absence of previous airways dis nours of a documented exposure to sts, moderate to severe bronchial hy tout eosinophilia. RADS (or asthma) duration of exposure to the irritating or high concentrations of irritating sub acterized by difficulty breathing, cou	exposure to high levels of highly irritating sease in a non-atopic individual, with sudden ons the irritant. Other criteria for diagnosis of RADS perreactivity on methacholine challenge testing, following an irritating inhalation is an infrequent substance. On the other hand, industrial bronch stance (often particles) and is completely gh and mucus production.	
	No evidence of carcinogenic properties. No evidence of Asthma-like symptoms may continue for months or evidence of condition known as reactive airways dysfunction syndre compound. Main criteria for diagnosing RADS include of persistent asthma-like symptoms within minutes to f include a reversible airflow pattern on lung function tes and the lack of minimal lymphocytic inflammation, with disorder with rates related to the concentration of and is a disorder that occurs as a result of exposure due to reversible after exposure ceases. The disorder is chara The material may produce severe irritation to the eye of the material may produce severe irritation to the eye of the material may produce severe irritation to the eye of the several sev	of mutagenic or teratogenic effects. en years after exposure to the mater ome (RADS) which can occur after the absence of previous airways dis nours of a documented exposure to sts, moderate to severe bronchial hy iout eosinophilia. RADS (or asthma) duration of exposure to the irritating o high concentrations of irritating sub acterized by difficulty breathing, cou causing pronounced inflammation. R or repeated exposure and may prod nema) and swelling the epidermis. H	exposure to high levels of highly irritating sease in a non-atopic individual, with sudden ons the irritant. Other criteria for diagnosis of RADS perreactivity on methacholine challenge testing, following an irritating inhalation is an infrequent substance. On the other hand, industrial bronch stance (often particles) and is completely gh and mucus production. Repeated or prolonged exposure to irritants may uce a contact dermatitis (nonallergic). This form	
	No evidence of carcinogenic properties. No evidence of Asthma-like symptoms may continue for months or evi- condition known as reactive airways dysfunction syndr compound. Main criteria for diagnosing RADS include of persistent asthma-like symptoms within minutes to h include a reversible airflow pattern on lung function tes and the lack of minimal lymphocytic inflammation, with disorder with rates related to the concentration of and is a disorder that occurs as a result of exposure due too reversible after exposure ceases. The disorder is charc The material may produce severe irritation to the eye of produce conjunctivitis. The material may cause skin irritation after prolonged dermatitis is often characterised by skin redness (eryth	of mutagenic or teratogenic effects. en years after exposure to the mater ome (RADS) which can occur after the absence of previous airways dis nours of a documented exposure to sts, moderate to severe bronchial hy iout eosinophilia. RADS (or asthma) duration of exposure to the irritating o high concentrations of irritating sub acterized by difficulty breathing, cou causing pronounced inflammation. R or repeated exposure and may prod nema) and swelling the epidermis. H	exposure to high levels of highly irritating sease in a non-atopic individual, with sudden ons the irritant. Other criteria for diagnosis of RADS perreactivity on methacholine challenge testing, following an irritating inhalation is an infrequent substance. On the other hand, industrial bronch istance (often particles) and is completely gh and mucus production. Repeated or prolonged exposure to irritants may uce a contact dermatitis (nonallergic). This form istologically there may be intercellular oedema of	
CALCIUM CARBONATE Acute Toxicity Skin Irritation/Corrosion	No evidence of carcinogenic properties. No evidence of Asthma-like symptoms may continue for months or evi- condition known as reactive airways dysfunction syndr compound. Main criteria for diagnosing RADS include of persistent asthma-like symptoms within minutes to f include a reversible airflow pattern on lung function tes and the lack of minimal lymphocytic inflammation, with disorder with rates related to the concentration of and is a disorder that occurs as a result of exposure due to reversible after exposure ceases. The disorder is char: The material may produce severe irritation to the eye of produce conjunctivitis. The material may cause skin irritation after prolonged dermatitis is often characterised by skin redness (eryth the spongy layer (spongiosis) and intracellular oedema	of mutagenic or teratogenic effects. en years after exposure to the mater rome (RADS) which can occur after the absence of previous airways dis nours of a documented exposure to sts, moderate to severe bronchial hy lout eosinophilia. RADS (or asthma) duration of exposure to the irritating or high concentrations of irritating sub acterized by difficulty breathing, cou causing pronounced inflammation. R or repeated exposure and may prod hema) and swelling the epidermis. H a of the epidermis.	exposure to high levels of highly irritating sease in a non-atopic individual, with sudden ons the irritant. Other criteria for diagnosis of RADS perreactivity on methacholine challenge testing, following an irritating inhalation is an infrequent substance. On the other hand, industrial bronch stance (often particles) and is completely gh and mucus production. Repeated or prolonged exposure to irritants may uce a contact dermatitis (nonallergic). This form istologically there may be intercellular oedema c	
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CALCIUM CARBONATE Acute Toxicity Skin Irritation/Corrosion Serious Eye	No evidence of carcinogenic properties. No evidence of Asthma-like symptoms may continue for months or evidence of Asthma-like symptoms may continue for months or evidence of persistent asthma-like symptoms within minutes to hinclude a reversible airflow pattern on lung function test and the lack of minimal lymphocytic inflammation, with disorder with rates related to the concentration of and is a disorder that occurs as a result of exposure due to reversible after exposure ceases. The disorder is chart. The material may produce severe irritation to the eye of produce conjunctivitis. The material may cause skin irritation after prolonged dermatitis is often characterised by skin redness (eryth the spongy layer (spongiosis) and intracellular oedematics).	of mutagenic or teratogenic effects. en years after exposure to the mater rome (RADS) which can occur after the absence of previous airways dis nours of a documented exposure to sts, moderate to severe bronchial hy jout eosinophilia. RADS (or asthma) duration of exposure to the irritating b high concentrations of irritating sub acterized by difficulty breathing, cou causing pronounced inflammation. R or repeated exposure and may prod nema) and swelling the epidermis. H a of the epidermis.	exposure to high levels of highly irritating sease in a non-atopic individual, with sudden ons the irritant. Other criteria for diagnosis of RADS perreactivity on methacholine challenge testing, following an irritating inhalation is an infrequent substance. On the other hand, industrial bronch istance (often particles) and is completely gh and mucus production. Repeated or prolonged exposure to irritants may uce a contact dermatitis (nonallergic). This form istologically there may be intercellular oedema c	

SECTION 12 Ecological information

Toxicity

Ranvet's Topline FX

Species

	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	>14mg/l	2
calcium carbonate	LC50	96h	Fish	>165200mg/L	4
	NOEC(ECx)	1h	Fish	4-320mg/l	4
Legend:	Ecotox database		Registered Substances - Ecotoxicological Info atic Hazard Assessment Data 6. NITE (Japan		

May cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

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

Waste treatment methods	
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. 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. 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 destroved.

SECTION 14 Transport information

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

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

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

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

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
calcium carbonate	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
calcium carbonate	Not Available

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SECTION 15 Regulatory information

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

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	Yes		
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	Yes		
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	09/10/2024
Initial Date	11/01/2009

SDS Version Summary

Version	Date of Update	Sections Updated
6.1	12/23/2022	Classification review due to GHS Revision change.
7.1	09/10/2024	Composition / information on ingredients - Ingredients

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

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