

## **Crop Smart Pty Ltd**

Chemwatch: 5582-85 Version No: 2.1

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

Chemwatch Hazard Alert Code: 2

Issue Date: 09/01/2023 Print Date: 10/01/2023 S.GHS.AUS.EN.E

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

Product Identifier		
Product name	Smart Tralkoxydim WG Herbicide	
Chemical Name	Not Applicable	
Synonyms	APVMA Approval Number: 68244	
Chemical formula	Not Applicable	
Other means of identification	Not Available	

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

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

Registered company name	Crop Smart Pty Ltd	
Address	2409/ 4 Daydream Street WARRIEWOOD NSW 2102 Australia	
Telephone	1300 783 481	
Fax	Not Available	
Website	www.cropsmart.com.au	
Email	II Compliance@cropsmart.com.au	

### Emergency telephone number

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE	
Emergency telephone numbers	+61 1800 951 288	
Other emergency telephone numbers	+61 3 9573 3188	

## Once connected and if the message is not in your preferred language then please dial 01

## **SECTION 2 Hazards identification**

### Classification of the substance or mixture

	Poisons Schedule	S5
Classification [1] Acute Toxicity (Oral) Category 4, Carcinogenicity Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 2		Acute Toxicity (Oral) Category 4, Carcinogenicity Category 2, Hazardous to the Aquatic Environment Long-Term 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(	
Signal wo	Warning

## Hazard statement(s)

.,	
H302 Harmful if swallowed.	
H351 Suspected of causing cancer.	
H411	Toxic to aquatic life with long lasting effects.

## Precautionary statement(s) Prevention

P201	Obtain special instructions before use.	
P280	Wear protective gloves and protective clothing.	
P264	Wash all exposed external body areas thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P273	P273 Avoid release to the environment.	

### Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.	
P391	ollect spillage.	
P301+P312	12 IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.	
P330	330 Rinse mouth.	

## 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
87820-88-0	30-60	tralkoxydim
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	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
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	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>For advice, contact a Poisons Information Centre or a doctor at once.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Transport to hospital or doctor without delay.</li> </ul>

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

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination).

For poisons (where specific treatment regime is absent):

BASIC TREATMENT

- Administer oxygen by non-rebreather mask at 10 to 15 L/min. ۶ Monitor and treat, where necessary, for pulmonary oedema.
- ۲ Monitor and treat, where necessary, for shock.
- Anticipate seizures.
- ۲ DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

### ADVANCED TREATMENT

Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.

Establish a patent airway with suction where necessary.

Watch for signs of respiratory insufficiency and assist ventilation as necessary.

- Positive-pressure ventilation using a bag-valve mask might be of use.
- ۶ Monitor and treat, where necessary, for arrhythmias.
- ۲ Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- + Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.

Proparacaine hydrochloride should be used to assist eye irrigation.

BRONSTEIN, A.C. and CURRANCE, P.L. EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

Treat symptomatically.

## **SECTION 5 Firefighting measures**

### Extinguishing media

There is no restriction on the type of extinguisher which may be used.

Use extinguishing media suitable for surrounding area.

## Special hazards arising from the substrate or mixture

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result Fire Incompatibility

### Advice for firefighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Solid which exhibits difficult combustion or is difficult to ignite.</li> <li>Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion.</li> <li>Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn rapidly and fiercely if ignited; once initiated larger particles up to 1400 microns diameter will contribute to the propagation of an explosion.</li> <li>A dust explosion may release large quantities of gaseous products; this in turn creates a subsequent pressure rise of explosive force capable of damaging plant and buildings and injuring people.</li> <li>Usually the initial or primary explosion takes place in a confined space such as plant or machinery, and can be of sufficient force to damage or rupture the plant. If the shock wave from the primary explosion enters the surrounding area, it will disturb any settled dust layers, forming a second dust cloud, and often initiate a much larger secondary explosion. All large scale explosions have resulted from chain reactions of this type.</li> <li>Dry dust can also be charged electrostatically by turbulence, pneumatic transport, pouring, in exhaust ducts and during transport.</li> <li>Build-up of electrostatic charge may be prevented by bonding and grounding.</li> <li>Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as explosion venting.</li> <li>All movable parts coming in contact with this material should have a speed of less than 1-metre/sec.</li> <li>Decomposes on heating and produces: carbon monoxide (CO) carbon dioxide (CO2) nitrogen oxides (NOX) other pyrolysis products typical of burning organic material. May emit poisonous fumes.</li> </ul>
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	<ul> <li>Clean up waste regularly and abnormal spills immediately.</li> <li>Avoid breathing dust and contact with skin and eyes.</li> <li>Wear protective clothing, gloves, safety glasses and dust respirator.</li> <li>Use dry clean up procedures and avoid generating dust.</li> <li>Vacuum up or sweep up. NOTE: Vacuum cleaner must be fitted with an exhaust micro filter (HEPA type) (consider explosion-proof machines designed to be grounded during storage and use).</li> <li>Dampen with water to prevent dusting before sweeping.</li> <li>Place in suitable containers for disposal.</li> </ul>
Major Spills	<ul> <li>Moderate hazard.</li> <li>CAUTION: Advise personnel in area.</li> <li>Alert Emergency Services and tell them location and nature of hazard.</li> <li>Control personal contact by wearing protective clothing.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Recover product wherever possible.</li> <li>IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal.</li> <li>ALWAYS: Wash area down with large amounts of water and prevent runoff into drains.</li> </ul>

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**

ecautions for safe handling	
Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT enter, confined spaces until atmosphere has been checked.</li> <li>Neven handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> <li>Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions)</li> <li>Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame.</li> <li>Establish good housekeeping practices.</li> <li>Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds.</li> <li>Use continuous suction at points of dust generation to capture and minimise the accumulation dust. Nerula attention should be gi</li></ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry area protected from environmental extremes.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>For major quantities: <ul> <li>Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground wate lakes and streams).</li> </ul> </li> </ul>

## Conditions for safe storage, including any incompatibilities

Suitable container	drum/sacks  ► 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

Control parameters				
Occupational Exposure Limits (O	EL)			
INGREDIENT DATA				
Not Available				
Emergency Limits				
Ingredient	TEEL-1	TEEL-2		TEEL-3
Smart Tralkoxydim WG Herbicide	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
tralkoxydim	Not Available		Not Available	
Occupational Exposure Banding				
Ingredient	Occupational Exposure Band Rating		Occupational Expos	ure Band Limit

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
tralkoxydim	E	≤ 0.01 mg/m³	
Notes:	Occupational exposure banding is a process of assigning ch adverse health outcomes associated with exposure. The out range of exposure concentrations that are expected to protect	put of this process is an occupational exposure band (OEB),	
xposure controls			
Appropriate engineering controls	Engineering controls are used to remove a hazard or place at be highly effective in protecting workers and will typically be in The basic types of engineering controls are: Process controls which involve changing the way a job activit Enclosure and/or isolation of emission source which keeps a "adds" and "removes" air in the work environment. Ventilation ventilation system must match the particular process and che Employers may need to use multiple types of controls to preve Local exhaust ventilation usually required. If risk of overexpo protection. Supplied-air type respirator may be required in sp An approved self contained breathing apparatus (SCBA) may Provide adequate ventilation in warehouse or closed storage velocities which, in turn, determine the "capture velocities" of Type of Contaminant: solvent, vapours, degreasing etc., evaporating from tank (in aerosols, fumes from pouring operations, intermittent conte drift, plating acid fumes, pickling (released at low velocity in direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion) grinding, abrasive blasting, tumbling, high speed wheel gen very high rapid air motion). Within each range the appropriate value depends on: Lower end of the range 1: Room air currents minimal or favourable to capture 2: Contaminants of low toxicity or of nuisance value only. 3: Intermittent, low production. 4: Large hood or large air mass in motion Simple theory shows that air velocity falls rapidly with distance with the square of distance from the extraction point (in simpl accordingly, after reference to distance from the contaminatif 1-2 m/s (200-400 f/min) for extraction of solvents generated i producing performance deficits within the extraction apparatus more when extraction systems are installed or used.	Independent of worker interactions to provide this high level by or process is done to reduce the risk. Selected hazard "physically" away from the worker and vent in can remove or dilute an air contaminant if designed proper perical or contaminant in use. The enterployee overexposure. Sure exists, wear approved respirator. Correct fit is essential ecial circumstances. Correct fit is essential to ensure adeque by be required in some situations. area. Air contaminants generated in the workplace possess fresh circulating air required to effectively remove the conta- in still air). The still air (released at high initial velocity into zone of the still air) and the still air (released at high initial velocity into zone of the still air). The still air (released at high initial velocity into zone of the still air). The still air (released at high initial velocity into zone of the still air) and the still avelocity into zone of the still air (released at high initial velocity into zone of the still air (released at high initial velocity into zone of the still air (released at high initial velocity into zone of the still air (released at high initial velocity into zone of the still air (released at high initial velocity into zone of the still air (released at high initial velocity into zone of the still air (released at high initial velocity into zone of the still air (released at high toxicity the still air (released at high toxicity the still air (released) the extraction pipe. Velocit the cases). Therefore the air speed at the extraction point sho the geource. The air velocity at the extraction fan, for example, in a tank 2 meters distant from the extraction point. Other meters	of protection. tilation that strategically ty. The design of a I to obtain adequate ate protection. s varying "escape" minant. Air Speed: 0.25-0.5 m/s (50-100 f/min.) 0.5-1 m/s (100-200 f/min.) 1-2.5 m/s (200-500 f/min.) 2.5-10 m/s (500-2000 f/min.) where the adjusted of the adjusted o
Personal protection			
Eye and face protection	the wearing of lenses or restrictions on use, should be cr and adsorption for the class of chemicals in use and an their removal and suitable equipment should be readily a remove contact lens as soon as practicable. Lens should	enses may absorb and concentrate irritants. A written policy eated for each workplace or task. This should include a revi account of injury experience. Medical and first-aid personnel vailable. In the event of chemical exposure, begin eye irriga I be removed at the first signs of eye redness or irritation - le nds thoroughly. [CDC NIOSH Current Intelligence Bulletin 55	ew of lens absorption should be trained in tion immediately and ens should be removed
Skin protection	See Hand protection below		
Hands/feet protection	The selection of suitable gloves does not only depend on the manufacturer. Where the chemical is a preparation of severa and has therefore to be checked prior to the application. The exact break through time for substances has to be obtain making a final choice. Personal hygiene is a key element of effective hand care. Glwashed and dried thoroughly. Application of a non-perfumed Suitability and durability of glove type is dependent on usage .frequency and duration of contact, .chemical resistance of glove material, .glove thickness and .dexterity Select gloves tested to a relevant standard (e.g. Europe EN 3 .When prolonged or frequently repeated contact may occur, minutes according to EN 374, AS/NZS 2161.10.1 or national .When only brief contact is expected, a glove with a protectiti 374, AS/NZS 2161.10.1 or national equivalent) is recomment	I substances, the resistance of the glove material can not be need from the manufacturer of the protective gloves and has poves must only be worn on clean hands. After using gloves, moisturiser is recommended. . Important factors in the selection of gloves include: 	e calculated in advance to be observed when hands should be time greater than 240

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:

Body protection	For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended. It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: - Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of. - Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential 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. Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present. butyl rubber. butyl rubber. butyl rubber. butyl rubber. fluorocaoutchouc. polyvinyl chloride. Gloves should be examined for wear and/ or degradation constantly. See Other protection below
Other protection	<ul> <li>PV.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>

#### Respiratory protection

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

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

\* - Negative pressure demand \*\* - Continuous flow

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

· Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

• The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).

· Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.

· Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program. · Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

· Use approved positive flow mask if significant quantities of dust becomes airborne.

· Try to avoid creating dust conditions.

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

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

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

· Sub-micron thermally generated particles e.g. welding fumes, fertilizer and bushfire smoke. · Biologically active airborne particles under specified infection control applications e.g. viruses, bacteria, COVID-19, SARS

#### SECTION 9 Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance	Blue granulated solid.		
Physical state	Divided Solid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Applicable

Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water	Not Available	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

## **SECTION 10 Stability and reactivity**

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

## **SECTION 11 Toxicological information**

## Information on toxicological effects

Inhaled	Directives using animal models). Nevertheless, adverse sy route and good hygiene practice requires that exposure be setting. Persons with impaired respiratory function, airway disease if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has o	th effects or irritation of the respiratory tract following inhalation (as classified by EC /stemic effects have been produced following exposure of animals by at least one other e kept to a minimum and that suitable control measures be used in an occupational as and conditions such as emphysema or chronic bronchitis, may incur further disability poccurred or if kidney damage has been sustained, proper screenings should be isk if handling and use of the material result in excessive exposures.
Ingestion	Accidental ingestion of the material may be harmful; anima produce serious damage to the health of the individual.	al experiments indicate that ingestion of less than 150 gram may be fatal or may
Skin Contact	has been identified following exposure of animals by at lea through wounds, lesions or abrasions. Open cuts, abraded or irritated skin should not be exposed	rasions or lesions, may produce systemic injury with harmful effects. Examine the skin
Eye	Although the material is not thought to be an irritant (as cla characterised by tearing or conjunctival redness (as with w	assified by EC Directives), direct contact with the eye may cause transient discomfort vindburn). Slight abrasive damage may also result.
	Substance accumulation, in the human body, may occur a	er or mutations, but there is not enough data to make an assessment. nd may cause some concern following repeated or long-term occupational exposure.
Chronic	micron penetrating and remaining in the lung.	e changes in lung function i.e. pneumoconiosis, caused by particles less than 0.5 ed from ketones and aldoximes, derived from aldehydes. Several ketoximes have
Chronic Smart Tralkoxydim WG	micron penetrating and remaining in the lung. There are generally two types of oximes: ketoximes, derive	
	micron penetrating and remaining in the lung. There are generally two types of oximes: ketoximes, derive elicited cancer-causing effects on chronic exposure.	ed from ketones and aldoximes, derived from aldehydes. Several ketoximes have
Smart Tralkoxydim WG	micron penetrating and remaining in the lung. There are generally two types of oximes: ketoximes, derive elicited cancer-causing effects on chronic exposure.	ed from ketones and aldoximes, derived from aldehydes. Several ketoximes have IRRITATION
Smart Tralkoxydim WG Herbicide	micron penetrating and remaining in the lung. There are generally two types of oximes: ketoximes, derive elicited cancer-causing effects on chronic exposure. <b>TOXICITY</b> Not Available	ed from ketones and aldoximes, derived from aldehydes. Several ketoximes have IRRITATION Not Available
Smart Tralkoxydim WG	micron penetrating and remaining in the lung. There are generally two types of oximes: ketoximes, derive elicited cancer-causing effects on chronic exposure. TOXICITY Not Available TOXICITY	ed from ketones and aldoximes, derived from aldehydes. Several ketoximes have  IRRITATION Not Available IRRITATION
Smart Tralkoxydim WG Herbicide	micron penetrating and remaining in the lung. There are generally two types of oximes: ketoximes, derive elicited cancer-causing effects on chronic exposure. TOXICITY Not Available TOXICITY dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup>	ed from ketones and aldoximes, derived from aldehydes. Several ketoximes have           IRRITATION           Not Available           IRRITATION           Eye (rabbit): mild *
Smart Tralkoxydim WG Herbicide	micron penetrating and remaining in the lung. There are generally two types of oximes: ketoximes, derive elicited cancer-causing effects on chronic exposure. TOXICITY Not Available TOXICITY dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50: >3.5 mg/l4h <sup>[2]</sup> Oral (Rabbit) LD50; >519 mg/kg <sup>[2]</sup>	ed from ketones and aldoximes, derived from aldehydes. Several ketoximes have           IRRITATION           Not Available           IRRITATION           Eye (rabbit): mild *           Skin (rabbit): mild *           ces - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise

Continued...

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## Smart Tralkoxydim WG Herbicide

	LLNA,alpha,beta-epoxy oximes. Allergic Contact Dermatitis—Formation, Structural Requirements,and Reactivity of Skin Sensitizers. Ann-Therese Karlberg et al: Chem. Res. Toxicol. 2008, 21, pp 53–69 http://ttp.cdc.gov/pub/Documents/OEL/06.%20Dotson/References/Karlberg_2008.pdf Inhibitors of acetyl CoA carboxylase, the target enzyme of certain herbicides, have the capacity, in mammals, to alter blood lipid levels. In the male rat, a reduction (p < 0.05) in blood cholesterol and total lipids in a chronic study may be a reflection of inhibition of this enzyme. However, in the female mouse, there was an increase in blood cholesterol at the highest dose tested, in a subchronic study . Male mice in this study showed an increase in total lipids at the two highest doses. It is therefore possible that many of the effects reported in acute, subchronic and chronic studies are manifestations of a compromise of normal liver function. The inhibition of fatty acid biosynthesis, in the liver. may account for the majority of the effects observed. However, increases in liver weight, seen in acute and sub-chronic studies, and decreases in liver weight, which are seen in chronic studies, alone, do not necessarily reflect an adverse effect. This is because liver weight changes have often been found to be reversible, in subchronic studies following the discontinuation of dosing, or through adaptation mechanisms, with the continued dietary intake of fenoxaprop-ethyl. in chronic studies. <b>[* The Pesticides Manual, Incorporating The Agrochemicals Handbook, 10th Edition, Editor Clive Tomlin, 1994, British Crop Protection Council]</b>		
Acute Toxicity	¥	Carcinogenicity	¥
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
		Legend: 🗙 – Data either n	not available or does not fill the criteria for classification

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

## **SECTION 12 Ecological information**

## Toxicity

Smart Tralkoxydim WG Herbicide	Endpoint	Test Duration (hr)	Species		Value	Source
	Not Available	Not Available	Not Available		Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Valu	ıe	Source
	EC50(ECx)	48h	Crustacea	1.45	-2.668mg/L	4
tralkoxydim	EC50	48h	Crustacea	1.45	-2.668mg/L	4
	LC50	96h	Fish	47.5	6-55.68mg/L	4
	EC50	96h	Algae or other aquatic plants	>5.9	16mg/L	4
Legend:	Ecotox databa	1. IUCLID Toxicity Data 2. Europe ECHA Regist se - Aquatic Toxicity Data 5. ECETOC Aquatic Ha ion Data 8. Vendor Data	6	,		,

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. DO NOT discharge into sewer or waterways.

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
tralkoxydim	HIGH	HIGH
Bioaccumulative potential		
Ingredient	Bioaccumulation	

tralkoxydim	HIGH (LogKOW = 4.8735)
Mobility in soil	

Ingredient	Mobility
tralkoxydim	LOW (KOC = 8113)

## **SECTION 13 Disposal considerations**

### Waste treatment methods

Product / Packaging disposal	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> <li>Otherwise:</li> <li>If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sever may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> </ul>

### Labels Required

Marine Pollutant	
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

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

Not Applicable

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

Product name	Group
tralkoxydim	Not Available

### Transport in bulk in accordance with the ICG Code

Product name	Ship Type	

tralkoxydim Not Available

## **SECTION 15 Regulatory information**

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

## tralkoxydim is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5  $\,$ 

### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	No (tralkoxydim)
Canada - DSL	No (tralkoxydim)
Canada - NDSL	No (tralkoxydim)
China - IECSC	No (tralkoxydim)
Europe - EINEC / ELINCS / NLP	No (tralkoxydim)
Japan - ENCS	No (tralkoxydim)
Korea - KECI	No (tralkoxydim)
New Zealand - NZIoC	Yes
Philippines - PICCS	No (tralkoxydim)
USA - TSCA	No (tralkoxydim)
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	No (tralkoxydim)
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	09/01/2023
Initial Date	09/01/2023

#### 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

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

IARC: International Agency for Research on Cancer

end of SDS

TEEL: Temporary Emergency Exposure  $\mathsf{Limit}_\circ$ 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 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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