# Amplify **Arxada NZ Limited**

Chemwatch Hazard Alert Code: 3

Chemwatch: 5375-73 Version No: 5.1 Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Issue Date: 23/12/2022 Print Date: 02/10/2023 S.GHS.NZL.EN

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

#### **Product Identifier**

Product name	Amplify
Chemical Name	Not Applicable
Synonyms	Not Available
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains aromatic solvent 200 and oxyfluorfen)
Chemical formula	Not Applicable
Other means of identification	Not Available

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

Adjuvant. Relevant identified uses SDS are intended for use in the workplace ONLY. For domestic-use products, refer to consumer labels. Use according to manufacturer's directions.

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

Registered company name	Arxada NZ Limited	
Address	13-15 Hudson Road Bell Block New Plymouth 4312 New Zealand	
Telephone	+64 6 755 9234	
Fax	+64 6 755 1174	
Website	www.arxada.co.nz	
Email	office-newplymouth@arxada.com	

#### Emergency telephone number

Association / Organisation	Arxada NZ Limited	CHEMWATCH EMERGENCY RESPONSE (24/7)	
Emergency telephone numbers	0800 243 622	+64 800 700 112	
Other emergency telephone numbers	+64 4 917 9888 (International)	+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

Classification <sup>[1]</sup>	Aspiration Hazard Category 1, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 1, Specific Target Organ Tox - Single Exposure (Narcotic Effects) Category 3, Carcinogenicity Category 2, Specific Target Organ Toxicity - Single Exposure Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 2, Hazardous to Soil Organisms	
Legend:	1. Classified by Chernwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	
Determined by Chemwatch using GHS/HSNO criteria	6.1E (aspiration), 6.3A, 8.3A, 6.7B, 6.9B, 9.1B, 9.2A	

#### Label elements

Hazard pictogram(s)			¥	
	$\sim$	$\sim$	$\sim$	

Signal word Danger

## Hazard statement(s)

H304	May be fatal if swallowed and enters airways.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H336	May cause drowsiness or dizziness.	
H351	Suspected of causing cancer.	

H371	May cause damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H421	Hazardous to soil organisms.

## Precautionary statement(s) Prevention

· · · · · · · · · · · · · · · · · · ·		
P201	Obtain special instructions before use.	
P260	Do not breathe mist/vapours/spray.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves, protective clothing, eye protection and face protection.	
P270	Do not eat, drink or smoke when using this product.	
P273	Avoid release to the environment.	
P264	Wash all exposed external body areas thoroughly after handling.	

# Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.		
P331	Do NOT induce vomiting.		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor/physician/first aider.		
P391	Collect spillage.		
P302+P352	IF ON SKIN: Wash with plenty of water.		
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
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

	-
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

## 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	
112-62-9	50-60	methyl oleate	
64742-94-5	10-20	aromatic solvent 200	
26264-06-2	10-20	calcium dodecylbenzenesulfonate	
42874-03-3	<10	oxyfluorfen	
Not Available	balance	Ingredients determined not to be hazardous	
Legend:	<ol> <li>Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI;</li> <li>Classification drawn from C&amp;L * EU IOELVs available</li> </ol>		

# **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>Immediately hold eyelids apart and flush the eye continuously with 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>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>	
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>	
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>	

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Ingestion	<ul> <li>If swallowed do NOT induce voltage</li> <li>If vomiting occurs, lean patient</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person sl</li> <li>Give water to rinse out mouth,</li> <li>Seek medical advice.</li> <li>If spontaneous vomiting appear vomitus.</li> </ul>	miting. forward or place on left side nowing signs of being sleep; then provide liquid slowly ar rs imminent or occurs, hold	(head-down position, it yor with reduced aware at a much as casualty patient's head down, lo	f possible) to maintain open airway and prevent aspiration. eness; i.e. becoming unconscious. can comfortably drink. wer than their hips to help avoid possible aspiration of

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

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours. Treat symptomatically.

# **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

special nazarus ansing nom the substrate of 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	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul>			
Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> <li>Mists containing combustible materials may be explosive.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>acrolein</li> <li>sulfur oxides (SOx)</li> <li>other pyrolysis products typical of burning organic material.</li> </ul>			

## **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>Slippery when spilt.</li> <li>Environmental hazard - contain spillage.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	<ul> <li>Slippery when spilt.</li> <li>Environmental hazard - contain spillage.</li> <li>Moderate hazard.</li> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>No smoking, naked lights or ignition sources.</li> <li>Increase ventilation.</li> <li>Stop leak if safe to do so.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Absorb remaining product with sand, earth or vermiculite.</li> <li>Collect solid residues and seal in labelled drums for disposal.</li> <li>Wash area and prevent runoff into drains.</li> </ul>
	Continued

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▶ 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	<ul> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> <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>Avoid smoking, naked lights or ignition sources.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately.</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.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</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> </ul>

#### Conditions for safe storage, including any incompatibilities

	Suitable contai	ner ► Pol ► Pac ► Che	<ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>				
Stora	ge incompatibi	lity ► Avc	id reaction with	oxidising agents	3		
							•
+	Х	0	Х	+	+	+	

X — Must not be stored together

**0** — May be stored together with specific preventions

+ — May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

# **SECTION 8 Exposure controls / personal protection**

## **Control parameters**

# Occupational Exposure Limits (OEL)

INCORPORATE DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	methyl oleate	Emery	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	oxyfluorfen	Respirable dust (not otherwise classified)	3 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	oxyfluorfen	Inhalable dust (not otherwise classified)	10 mg/m3	Not Available	Not Available	Not Available

l	Emergency Limits	
	Ingredient	

Ingredient	TEEL-1	TEEL-2		TEEL-3
Amplify	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
methyl oleate	Not Available		Not Available	
aromatic solvent 200	Not Available		Not Available	
calcium dodecylbenzenesulfonate	Not Available		Not Available	
oxyfluorfen	Not Available		Not Available	

Occupational Exposure Banding

Ingredient

**Occupational Exposure Band Rating** 

**Occupational Exposure Band Limit** 

Ingredient	Occupational Exposure Band Rating	Оссира	ational Exposure Band Limit		
calcium dodecylbenzenesylfonato	E	≤ 0.01 r	ng/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 prote	emicals into specific ca put of this process is ar ct worker health.	into specific categories or bands based on a chemical's potency and the is process is an occupational exposure band (OEB), which corresponds to a r health.		
Exposure controls					
Appropriate engineering controls	Engineering controls are used to remove a hazard or place a be highly effective in protecting workers and will typically be The basic types of engineering controls are: Process controls which involve changing the way a job activi 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 prev 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) ma 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 (i aerosols, fumes from pouring operations, intermittent conta drift, plating acid fumes, pickling (released at low velocity i direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion) grinding, abrasive blasting, tumbling, high speed wheel ge 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 simp accordingly, after reference to distance from the contaminati 1-2 m/s (200-400 t/min) for extraction of solvents generated producing performance deficits within the extraction apparatus more when extraction systems are installed or used.	d to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can ng workers and will typically be independent of worker interactions to provide this high level of protection. ng controls are: we changing the way a job activity or process is done to reduce the risk. emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically he work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a h the particular process and chemical or contaminant in use. multiple types of controls to prevent employee overexposure. ally required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. preathing apparatus (SCBA) may be required in some situations. in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "escape" strmine the "capture velocities" of fresh circulating air required to effectively remove the contaminant. <b>Air Speed:</b> <b>0.25-0.5 m/s</b> (50-100 f/min.) in operations, intermittent container filling, low speed conveyer transfers, welding, spray (ching (released at low velocity into zone of active generation) in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active <b>Upper end of the range</b> al or favourable to capture 1: Disturbing room air currents icitly or of nuisance value only. 2: Contaminants of high toxicity iton. 3: High production, heavy use mass in motion 4: Small hood-local control only velocity falls rapidly with distance away from the opening of a simple extraction pion. Velocity generally decreases rom the extraction point (in simple cases). Therefore the air speed at the extraction point, blub be adjusted, o distance from the contaminating source. The air velocity at the extraction point. Other mechanical consideration of s			
Individual protection measures, such as personal protective equipment					
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. 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 bands thoroughly (CDC NIOSH Current Intelligence Bulletin 59)</li> </ul>				
Skin protection	See Hand protection below				
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>NOTE:</li> <li>The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.</li> <li>Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.</li> <li>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</li> <li>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.</li> <li>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.</li> <li>Suitability and duration of contact,         <ul> <li>frequency and duration of contact,</li> <li>chemical resistance of glove material,</li> <li>glove thickness and</li> <li>dexterity</li> </ul> </li> <li>Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).</li> </ul>				

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• When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.         • Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.         • Contaminated gloves should be replaced.         As defined in ASTM F739-66 in any application, gloves are rated as:         • Excellent when breakthrough time > 480 min         • Good when breakthrough time > 20 min         • Fair when breakthrough time > 20 min         • Poor when glove material degrades         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 model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the glove phere and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the glove for indust.         • Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual destretity 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.         • Thinker gloves (up to 3 mm or more) may be required where a high degree of manual destretity 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.         • Thinker gloves (up to		minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
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• Good when breakthrough time > 20 min         • Fair when breakthrough time < 20 min         • Poor when glove material degrades         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, the 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.         • Other protection       • Overalls.         • PVC apron.       • Barrier cream.		Excellent when breakthrough time > 480 min
<ul> <li>Fair when breakthrough time &lt; 20 min</li> <li>Poor when glove material degrades</li> <li>For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.</li> <li>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.</li> <li>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:</li> <li>Thinner gloves (duor to 0.1 mm or less) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential</li> <li>Gloves thickness tup on the out of the use of the use applications, then disposed of.</li> <li>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</li> <li>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.</li> <li>Ye Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>		· Good when breakthrough time > 20 min
<ul> <li>Poor when glove material degrades</li> <li>For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.</li> <li>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.</li> <li>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.</li> <li>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</li> <li>Glove smust only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.</li> <li>Poveralls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>		Fair when breakthrough time < 20 min
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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.         Thinker 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.         Body protection       See Other protection below         • Overalls.       • Overalls.         • P.V.C apron.       • Barrier cream.         • Skin cleansing cream.       • Skin cleansing cream.         • Eye wash unit.       • Eye wash unit.		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 any statement of the glove task permeasing and the substance of based the sub-transfer of the glove selection should also be based on the glove selection should also be based on any statement of the glove selection should also be based on the glove selection should be any statement of the glove selection should be based on the glove selection should be glove selection should be based on the glove selection selec
Biologe interfaces that also vary depending on the glove manufacture, the glove 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.         • Thinker 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.         Body protection       See Other protection below         • Overalls.       • Overalls.         • P.V.C apron.       • Barrier cream.         • Skin cleansing cream.       • Skin cleansing cream.         • Eye wash unit.       • Eye wash unit.		consideration of the task requirements and knowledge of preakting of interest.
Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: <ul> <li>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.</li> <li>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 protectinal 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.</li> </ul> Body protection     See Other protection below <ul> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>		data should always be taken into account to ensure selection of the most appropriate glove for the task.
<ul> <li>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.</li> <li>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 pouncture 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.</li> <li>Body protection</li> <li>See Other protection below</li> <li>Other protection</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>		Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:
• 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.         Body protection       See Other protection below         • Overalls.       • Overalls.         • P.V.C apron.       • Barrier cream.         • Skin cleansing cream.       • Skin cleansing cream.		<ul> <li>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.</li> </ul>
Body protection       See Other protection below         Other protection       • Overalls.         • P.V.C apron.       • Barrier cream.         • Skin cleansing cream.         • Eye wash unit.		• 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
Body protection     See Other protection below       Other protection     Sec Other area       P.V.C apron.     Barrier cream.       Skin cleansing cream.       Eye wash unit.		puncture potential Cloves must only be ware on close bands. After using cloves, bands should be washed and dried theroughly. Application of a non-perfumed
Body protection       See Other protection below         Other protection <ul> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul> <li>Barrier cream.</li>		moisturiser is recommended.
Other protection <ul> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> <li>Eye wash unit.</li> </ul>	Body protection	See Other protection below
Other protection <ul> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>		▶ Overalls.
Other protection <ul> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>		▶ P.V.C apron.
<ul> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>	Other protection	▶ Barrier cream.
► Eye wash unit.		Skin cleansing cream.
		► Eye wash unit.

#### **Respiratory protection**

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

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS	-	A-PAPR-AUS / Class 1
up to 50 x ES	-	A-AUS / Class 1	-
up to 100 x ES	-	A-2	A-PAPR-2 ^

^ - Full-face

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

+ Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.

The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.

Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

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

#### Information on basic physical and chemical properties

Appearance	Clear gold coloured liquid; mixes with water.		
	·		
Physical state	Liquid	Relative density (Water = 1)	0.945
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	5-7 (5% in water)	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	>100 C	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	>100 C	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

## **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<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**

METHYL OLEATE

#### Information on toxicological effects Inhalation hazard is increased at higher temperatures. There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can Inhaled cause further lung damage. 512r67? Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733) Ingestion Accidental ingestion of the material may be damaging to the health of the individual. This material can cause inflammation of the skin on contact in some persons. Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Anionic surfactants can cause skin redness and pain, as well as a rash. Cracking, scaling and blistering can occur. Skin Contact Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions 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. If applied to the eyes, this material causes severe eye damage. Eve The liquid is discomforting to the eyes There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Chronic There is some evidence that inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population. There is limited evidence that, skin contact with this product is more likely to cause a sensitisation reaction in some persons compared to the general population Harmful: danger of serious damage to health by prolonged exposure if swallowed. IRRITATION TOXICITY Amplify Not Available Not Available TOXICITY IRRITATION Dermal (rabbit) LD50: >5000 mg/kg<sup>[2]</sup> Not Available methyl oleate Oral (Rat) LD50: >2000 mg/kg<sup>[2]</sup> TOXICITY IRRITATION Eye: no adverse effect observed (not irritating)<sup>[1]</sup> Dermal (rabbit) LD50: >2000 mg/kg<sup>[2]</sup> aromatic solvent 200 Inhalation(Rat) LC50: >0.003 mg/L4h<sup>[1]</sup> Skin: adverse effect observed (irritating)<sup>[1]</sup> Oral (Rat) LD50: >2000 mg/kg<sup>[1]</sup> TOXICITY IRRITATION Dermal (rabbit) LD50: >212 mg/kg<sup>[1]</sup> Eye: adverse effect observed (irritating)<sup>[1]</sup> calcium dodecylbenzenesulfonate Inhalation(Rat) LC50: 0.31 mg/L4h<sup>[1]</sup> Skin: adverse effect observed (irritating)<sup>[1]</sup> Oral (Rat) LD50: 650 mg/kg<sup>[2]</sup> Skin: no adverse effect observed (not irritating)<sup>[1]</sup> TOXICITY IRRITATION Dermal (rabbit) LD50: >10000 mg/kg<sup>[2]</sup> Eye (rabbit): mild to moderate \* oxyfluorfen Oral (Dog) LD50; >5000 mg/kg<sup>[2]</sup> Skin (rabbit): mild \* Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

Group A aliphatic monoesters (fatty acid esters) cause very little or no injury and are considered safe for use in cosmetics. For aliphatic fatty acids (and salts) Acute oral (gavage) toxicity:

The acute oral LD50 values in rats for both were greater than >2000 mg/kg bw Clinical signs were generally associated with poor condition following administration of high doses (salivation, diarrhoea, staining, piloerection and lethargy). There were no adverse effects on body weight



Most studies involving gasoline have shown that gasoline does not cause genetic mutation, including all recent studies in living human subjects (such as in petrol service station attendants)

Animal studies show concentrations of toluene (>0.1%) can cause developmental effects such as lower birth weight and developmental toxicity

	to the nervous system of the foetus. Other studies show no adverse effects on the foetus. Prolonged contact with petroleum may result in skin inflammation and make the skin more sensitive to irritation and penetration by other materials.
CALCIUM DODECYLBENZENESULFONATE	<ul> <li>** REACh Dossier</li> <li>Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophila. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.</li> <li>For alkaryl sulfonate petroleum additives:</li> <li>Acute toxicity: Existing data indicates relatively low acute toxicity. Animal testing suggested diarrhea and reduced food intake, which is consistent with the detergents in an oil-based vehicle having an irritating effect on the gastrointestinal tract.</li> <li>Subchronic toxicity: Existing data suggests minimal toxicity after chronic exposure by mouth. Repeated skin contact and inhalation in animals caused injury to the skin and the lungs, respectively.</li> <li>Reproductive and Developmental Toxicity: Existing data did not show this group of substances to cause reproductive or developmental toxicity. There was low concern for mutation-causing potential.</li> <li>Linear alkyl benzene sulfonate</li></ul>
OXYFLUORFEN	AD LODG mpkg <sup>1</sup> Toxicity class WHO Table 5, EPA IV * NGEL In chronic dietary trials, NGEL for rats 40, dogs 100, mice 2 mg/kg det * For Protocompringen Oxisaes (PPO) Inhibitor: PPO Inhibitor at high doses resulted in a range of observations in mammalian backology studies. As oxidised porphyrin is a key component of mammalian harding that compare the high deserts. This Processor porphyrins accumulating in the liver whore here way are excreted in the live under with high deserts. This Processor porphyrins accumulating in the liver whore here way are excreted in the live and processor conducted on rats and rabbis indicates that the majority of the compounds did not abov any reproductive, developmental, or teratogonic abnormalities, except at very high doses that elicit maternal toxicity. The developmental loxicity studies are either not readily absorbed and/or are rapidly degraded by metabolism are dimensioned in a number of species, including rats, rabbis, gasts, haves, catter, and the factores. In the levels of porphyrin accumulation resulting from exposure to PPO inhibitors. There is no bioaccumulation risk in animals. Metabolism of PPO hibitors has been studied in a number of species, including rats, rabbis, gasts, haves, catter, and chalow, any reproductive, developmental, or with small anounce in genes in the level of porthyrin accumulation risk main all single and the results of the metabolic degradation of these compounds by unimals includes introreduction, decerleding and mile. In chickens. In general, the level of the other porthyrin accumulation resulting from exposure to PPO inhibitors. There is no bioaccumulation risk in animals. Metabolism of PPO hibitors and readolism are excerted in unive, where difference was and mile. In chickens. In general, the level of all or the readolism are enimated in decretary, with statistica to the other way and the same dose level for short in through ton-gene metabolism are species (increased statistica) (PO) elimitated in the eggs by anteresto (PA) elimitated in the

	551phenth For chlorophenoxy pesticides: 551chlph		
	<ul> <li>WARNING: This substance has been classified by the Side-reactions during manufacture of the parent conservation of the parent conservation of the parent conservation of the parent of the parent co</li></ul>	the IARC as Group 2B: Possibly Carc mpound may result in the production of ly their alkali salts, can condense abor can cause effects on hormones and m rading to inflammation. Repeated or p exits by ingestion, with reported oral LD is greater than 5000 mg/kg in both rat skin sensitization in guinea pigs, and r ye irritant properties, and may be skin oal 1.6E is greater than 22.64 mg/L, it n observed in long-term feeding studie dy with rats given doses of 10, 100, or was seen at the 1000 mg/kg level. Too of foetuses and decreased maternal a mans at likely levels of exposure. with rabbits, 30 mg/kg/day, the highe the mothers . These data suggest oxy mice and on bacterial cell cultures ha ie to the conflicting results, it is not po h mice fed 0.3, 3, or 30 mg/kg/day, do alignant liver tumors in male mice . No erved in a 23-year study with rats fed n is not carcinogenic. in target organ, based on long-term feo orfen is highly hydrophobic, it may har <b>rochemicals Handbook, 10th Editio</b>	inogenic to Humans. of trace amounts of polyhalogenated aromatic ove 300 deg. imic thyroid hormone. Acne, discharge in the eye, rolonged exposure to irritants may produce 450 values of 5000 mg/kg in both rats and dogs, and ts and rabbits, also indicating slight toxicity by this moderate eye irritation in rabbits. However, Goal and a sensitizers . The 4-hour inhalation LC50 for the ndicating practically no toxicity via this route . es with rats, mice, and dogs. 1000 mg/kg/day by gavage, decreased implantation, dic effects on the mothers were also seen at this dose and foetal weights . It does not appear likely that st dose tested, produced an increase in fused sternal /flurofen may have teratogenic effects, but only at ve produced mixed results. However, unscheduled issible to determine the mutagenic potential of sees at and above 3 mg/kg/day produced o increased tumor formation was seen in female mice doses 2 mg/kg/day, nor in dogs at doses of 3 eeding studies. ve the potential to bioconcentrate in animal fatty <b>the, Editor Clive Tomlin, 1994, British Crop</b>
METHYL OLEATE & AROMATIC SOLVENT 200	No significant acute toxicological data identified in li	terature search.	
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 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
Amplify	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
methyl oleate	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	<1mg/l	1
	EC50	48h	Crustacea	0.95mg/l	1
aromatic solvent 200	EC50	96h	Algae or other aquatic plants	11.7mg/l	2
	LC50	96h	Fish	2-5mg/l	Not Available
	EC50(ECx)	48h	Crustacea	0.95mg/l	1
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	21mg/l	2
calcium dodecylbenzenesulfonate	EC50	48h	Crustacea	2.5mg/l	2
	EC50	96h	Algae or other aquatic plants	2.736mg/l	2
	LC50	96h	Fish	1.67mg/l	2
	NOEC(ECx)	672h	Fish	0.15mg/l	2

	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96h	Fish	0.176-0.419mg/L	4
	EC50	72h	Algae or other aquatic plants	0.00004-0.0001mg/l	4
oxyfluorfen	EC50	48h	Crustacea	0.081-0.203mg/L	4
	EC50	96h	Algae or other aquatic plants	<0.001mg/L	4
	NOEC(ECx)	72h	Algae or other aquatic plants	0.00002mg/l	4
Legend:	Extracted from 1 Ecotox database - Bioconcentratio	. IUCLID Toxicity Data 2. Europe ECHA Regi - Aquatic Toxicity Data 5. ECETOC Aquatic I - Data 8. Vendor Data	stered Substances - Ecotoxicological Informati Hazard Assessment Data 6. NITE (Japan) - Bi	on - Aquatic Toxicity 4. L oconcentration Data 7. M	IS EPA, ETI (Japan)

Toxic to aquatic organisms, 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
methyl oleate	LOW	LOW
oxyfluorfen	HIGH	HIGH

#### Bioaccumulative potential

Ingredient	Bioaccumulation
methyl oleate	LOW (LogKOW = 7.45)
aromatic solvent 200	LOW (BCF = 159)
oxyfluorfen	HIGH (LogKOW = 6.0465)

## Mobility in soil

Ingredient	Mobility
methyl oleate	LOW (KOC = 62440)
oxyfluorfen	LOW (KOC = 46840)

## **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. 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. DONOT 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 or consult manufacturer for recycling options. Consult State Land Waste Authority for disposal. Bury or incinerate residue at an approved site. Recycle containers if possible, or dispose of in an authorised landfill.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

## **Disposal Requirements**

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous. Only dispose to the environment if a tolerable exposure limit has been set for the substance.

Only deposit the hazardous substance into or onto a landfill or sewage facility or incinerator, where the hazardous substance can be handled and treated appropriately.

## **SECTION 14 Transport information**

Labels Required

Marine Pollutant	
HAZCHEM	•3Z

# Land transport (UN)

14.1. UN number or ID number	3082	3082		
14.2. UN proper shipping name	ENVIRONMENTALLY	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains aromatic solvent 200 and oxyfluorfen)		
14.3. Transport hazard class(es)	Class Subsidiary risk	9 Not Applicable		
14.4. Packing group	III			
14.5. Environmental hazard	Environmentally hazardous			
14.6. Special precautions for user	Special provisions	274; 331; 335; 375 5 L		

# Air transport (ICAO-IATA / DGR)

14.1. UN number	3082	3082		
14.2. UN proper shipping name	Environmentally hazardous substa	Environmentally hazardous substance, liquid, n.o.s. (contains aromatic solvent 200 and oxyfluorfen)		
14.3. Transport hazard class(es)	ICAO/IATA Class	9 Not Applicable		
	ERG Code	9L		
14.4. Packing group				
14.5. Environmental hazard	Environmentally hazardous	Environmentally hazardous		
14.6. Special precautions for user	Special provisions	Special provisions		
	Cargo Only Packing Instructions	Cargo Only Packing Instructions		
	Cargo Only Maximum Qty / Pack	Cargo Only Maximum Qty / Pack		
	r Passenger and Cargo Packing Ir	Passenger and Cargo Packing Instructions		
	Passenger and Cargo Maximum	Passenger and Cargo Maximum Qty / Pack		
	Passenger and Cargo Limited Qu	Passenger and Cargo Limited Quantity Packing Instructions		
	Passenger and Cargo Limited Ma	Passenger and Cargo Limited Maximum Qty / Pack		

# Sea transport (IMDG-Code / GGVSee)

14.1. UN number	3082			
14.2. UN proper shipping name	ENVIRONMENTALLY	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains aromatic solvent 200 and oxyfluorfen)		
14.3. Transport hazard class(es)	IMDG Class 9 IMDG Subrisk N	Not Applicable		
14.4. Packing group	Ш			
14.5 Environmental hazard	Marine Pollutant			
14.6. Special precautions for user	EMS Number Special provisions Limited Quantities	F-A, S-F 274 335 969 5 L		

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
methyl oleate	Not Available

Product name	Group
aromatic solvent 200	Not Available
calcium dodecylbenzenesulfonate	Not Available
oxyfluorfen	Not Available

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

Product name	Ship Type
methyl oleate	Not Available
aromatic solvent 200	Not Available
calcium dodecylbenzenesulfonate	Not Available
oxyfluorfen	Not Available

# **SECTION 15 Regulatory information**

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

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard
HSR002503	Additives Process Chemicals and Raw Materials Subsidiary Hazard Group Standard 2020

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

methyl oleate is found on the following regulatory lists	
International WHO List of Proposed Occupational Exposure Limit (OEL) Values for	New Zealand Workplace Exposure Standards (WES)
New Zealand Inventory of Chemicals (NZIoC)	
aromatic solvent 200 is found on the following regulatory lists	
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic	New Zealand Land Transport Rule: Dangerous Goods 2005 - Schedule 1 Quantity limits for dangerous goods
New Zealand Inventory of Chemicals (NZIoC)	
calcium dodecylbenzenesulfonate is found on the following regulatory lists	
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals	New Zealand Inventory of Chemicals (NZIoC)
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data	
oxyfluorfen is found on the following regulatory lists	
International WHO List of Proposed Occupational Exposure Limit (OEL) Values for	New Zealand Inventory of Chemicals (NZIoC)
Manufactured Nanomaterials (MNMS)	New Zealand Land Transport Rule: Dangerous Goods 2005 - Schedule 1 Quantity
New Zealand Approved Hazardous Substances with controls	limits for dangerous goods
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals	New Zealand Workplace Exposure Standards (WES)
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data	

#### Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Status

Hazard Class	Quantities
Not Applicable	Not Applicable

#### **Certified Handler**

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

#### Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

## **Tracking Requirements**

Not Applicable

## National Inventory Status

National Inventory

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	No (oxyfluorfen)	
Canada - NDSL	No (methyl oleate; aromatic solvent 200; calcium dodecylbenzenesulfonate; oxyfluorfen)	
China - IECSC	No (oxyfluorfen)	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	No (oxyfluorfen)	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	No (oxyfluorfen)	
USA - TSCA	No (oxyfluorfen)	
Taiwan - TCSI	Yes	
Mexico - INSQ	Yes	
Vietnam - NCI	Yes	
Russia - FBEPH	No (oxyfluorfen)	
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	23/12/2022
Initial Date	06/11/2019

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
4.1	09/12/2019	Hazards identification - Classification, Composition / information on ingredients - Ingredients
5.1	23/12/2022	Classification review due to GHS Revision change.

#### Other information

## Ingredients with multiple cas numbers

Name	CAS No
methyl oleate	112-62-9, 1937-62-8, 139152-82-2, 228858-36-4
aromatic solvent 200	64742-94-5, 63231-51-6
calcium dodecylbenzenesulfonate	26264-06-2, 105864-16-2, 12068-14-3, 1219441-08-3, 29062-23-5, 372965-63-4, 41934-13-8, 705264-21-7

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 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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