

# **Apollo Scientific**

Part Number: **PC4157** Version No: **3.4** Safety Data Sheet Chemwatch Hazard Alert Code: 2

Issue Date: **05/07/2023** Print Date: **05/07/2023** S.GHS.GB-NIR.EN

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

### **Product Identifier**

Product name	4-Fluoro-3-phenoxybenzaldehyde	
Chemical Name	1-fluoro-3-phenoxybenzaldehyde	
Synonyms	Not Available	
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	
Chemical formula	C13-H9-F-O2	
Other means of identification	Not Available	
CAS number	68359-57-9*	

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

Relevant identified uses N

Not Available

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

Registered company name	Apollo Scientific	Apollo Scientific Itd
Address	Whitefield Road, Bredbury SK62QR United Kingdom	Whitefield Road, Bredbury Cheshire SK6 2QR United Kingdom (NI)
Telephone	01614060505	+44(0) 161 406 0505
Fax	Fax 0161 406 0506 Not Available	
Website	Website         http://www.apolloscientific.co.uk/         apolloscientific.co.uk	
Email	sales@apolloscientific.co.uk sales@apolloscientific.co.uk	

# Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

# **SECTION 2 Hazards identification**

# Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008 [CLP] and

H411 - Hazardous to the Aquatic Environment Long-Term Hazard Category 2, H302 - Acute Toxicity (Oral) Category 4, H319 - Serious Eye Damage/Eye Irritation Category 2, H341 - Germ Cell Mutagenicity Category 2

amendments [1]	
Legend:	1. Classified by Chernwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Hazard pictogram(s)	
Signal word	Warning

# Hazard statement(s)

H411	Toxic to aquatic life with long lasting effects.	
H302	Harmful if swallowed.	
H319	Causes serious eye irritation.	
H341	Suspected of causing genetic defects.	

# Precautionary statement(s) Prevention

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

# Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P391	Collect spillage.	
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.	
P330	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

CAS No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor
68359-57-9*	100	<u>4-Fluoro-</u> <u>3-phenoxybenzaldehyde</u>	Hazardous to the Aquatic Environment Long-Term Hazard Category 2, Acute Toxicity (Oral) Category 4, Serious Eye Damage/Eye Irritation Category 2, Germ Cell Mutagenicity Category 2; H411, H302, H319, H341 <sup>[1]</sup>	Not Available

Legend: 1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L; \* EU IOELVs available; [e] Substance identified as having endocrine disrupting properties

### Mixtures

See section above for composition of Substances

# 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: <ul> <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, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

# Indication of any immediate medical attention and special treatment needed

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

Fire Incompatibility	None known.

# 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>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</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>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	Environmental hazard - contain spillage.

Minor hazard.
Clear area of personnel.
<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> </ul>
Control personal contact with the substance, by using protective equipment as required.
Prevent spillage from entering drains or water ways.
Contain spill with sand, earth or vermiculite.
<ul> <li>Collect recoverable product into labelled containers for recycling.</li> </ul>
Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal.
Wash area and prevent runoff into drains or waterways.
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>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>Avoid contact with moisture.</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. 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> </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 container	<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>
Storage incompatibility	Avoid contamination of water, foodstuffs, feed or seed. None known Store under argon

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

### **Control parameters**

Occupational Exposure Limits (OEL)						
INGREDIENT DATA	INGREDIENT DATA					
Not Available						
Emergency Limits	Emergency Limits					
Ingredient	TEEL-1	TEEL-2 TEEL-3		TEEL-3		
4-Fluoro- 3-phenoxybenzaldehyde	Not Available	Not Available		Not Available		
Ingredient	gredient Original IDLH Revised IDLH					
4-Fluoro-     Not Available       3-phenoxybenzaldehyde     Not Available		Not Available				

# Occupational Exposure Band Rating Occupational Exposure Band Limit 4-Fluoro-3-phenoxybenzaldehyde E ≤ 0.1 ppm Notes: Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

# **Exposure controls**

	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.         The basic types of engineering controls are:       Process controls which involve changing the way a job activity or process is done to reduce the risk.         Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.         Employers may need to use multiple types of controls to prevent employee overexposure.         General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in specific circumstances. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection.         Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.         Type of Contaminant:       Air Speed:         solvent, vapours, degreasing etc., evaporating from tank (in still air).       0.25-0.5 m/s (50-100 f/min)				
Appropriate engineering	aerosols, fumes from pouring operations, intermittent con welding, spray drift, plating acid fumes, pickling (released			0.5-1 m/s (100-200 f/min.)	
controls	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)			1-2.5 m/s (200-500 f/min.)	
	grinding, abrasive blasting, tumbling, high speed wheel ge into zone of very high rapid air motion).	2.5-10 m/s (500-2000 f/min.)			
	Within each range the appropriate value depends on:				
	Lower end of the range	Upper end of the range			
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents			
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity	1		
	3: Intermittent, low production.	3: High production, heavy use			
	4: Large hood or large air mass in motion	4: Small hood-local control only			
	Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.				
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 hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].</li> </ul>				
Skin protection	See Hand protection below				

Hands/feet protection	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. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: - frequency and duration of contact chemical resistance of glove material, eglove thickness and - devicetify Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent) When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended 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 Gornarinated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are rated as: - Excellent when breakthrough time > 20 min - Sar when breakthrough time > 20 min - Sar when breakthrough time > 20 min - Sar when breakthrough time > 20 min - Sor when glove material, gloves with a thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the epotending on the exact composition of the glove material. Therefore, glove selection should also be based o
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>

# **SECTION 9** Physical and chemical properties

# Information on basic physical and chemical properties

Appearance	Not Available		
Physical state	Liquid Relative density (Water = Not Available		
		1) Partition coefficient	
Odour	Not Available	n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	310	Molecular weight (g/mol)	Not Available

Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	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	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	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.
Eye	This material can cause eye irritation and damage in some persons.
Chronic	Strong evidence exists that this substance may cause irreversible mutations (though not lethal) even following a single exposure.

Legend: 1. Value ob

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

4-Fluoro- 3-phenoxybenzaldehyde	Laboratory (in vitro) and animal studies show, exp the possibility of producing mutation.	al studies show, exposure to the material may result in a possible risk of irreversible effects, with utation.		
Acute Toxicity	*	Carcinogenicity	×	
Skin Irritation/Corrosion	×	Reproductivity	×	
Serious Eye Damage/Irritation	<b>~</b>	STOT - Single Exposure	×	
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×	

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Mutagenicity ✔	Aspiration Haza Legend: X – Data either not a Data available to	vailable or does not fill the criteria for classification

# **SECTION 12 Ecological information**

### Toxicity

Legend: Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) -Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

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.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air	
4-Fluoro- 3-phenoxybenzaldehyde	HIGH	HIGH	

# **Bioaccumulative potential**

Ingredient	Bioaccumulation	
4-Fluoro- 3-phenoxybenzaldehyde	MEDIUM (LogKOW = 3.9669)	

# Mobility in soil

Ingredient	Mobility
4-Fluoro- 3-phenoxybenzaldehyde	LOW (KOC = 838.5)

# **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>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.</li> <li>A Hierarchy of Controls seems to be common - the user should investigate: <ul> <li>Reduction</li> <li>Reuse</li> <li>Recycling</li> <li>Disposal (if all else fails)</li> </ul> </li> <li>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. Shell life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, an recycling or reuse may not always be appropriate.</li> <li><b>DO NOT</b> allow wash water form 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 sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Management Authority for disposal.</li> <li>Bury residue in an authorised landfill.</li> </ul>
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# **SECTION 14 Transport information**

Labels Required		
Marine Pollutant		

# Land transport (ADR-RID)

UN number or ID number	3082				
UN proper shipping name	ENVIRONMENTAI	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.			
Transport hazard class(es)	Class     9       Subsidiary risk     Not Applicable				
Packing group	11				
Environmental hazard	Environmentally hazardous				
Special precautions for user	Hazard identifica Classification co Hazard Label Special provisior	de	90 M6 9 274 335 375 601		
	Limited quantity		5 L		
	Tunnel Restriction Code		3 (-)		

# Air transport (ICAO-IATA / DGR)

UN number	3082			
UN proper shipping name	Environmentally hazarde	Environmentally hazardous substance, liquid, n.o.s.		
Transport hazard class(es)	ICAO/IATA Class 9 ICAO / IATA Subrisk Not Applicable ERG Code 9L			
Packing group	11			
Environmental hazard	Environmentally hazardous			
	Special provisions		A97 A158 A197 A215 964	
	Cargo Only Packing Ir		964 450 L	
Special precautions for user	Passenger and Cargo Packing Instructions		964	
	Passenger and Cargo Maximum Qty / Pack		450 L	
	Passenger and Cargo Limited Quantity Packing Instructions		Y964	
	Passenger and Cargo Limited Maximum Qty / Pack		30 kg G	

# Sea transport (IMDG-Code / GGVSee)

UN number	3082		
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		
Transport hazard class(es)	IMDG Class9IMDG SubriskNot Applicable		
Packing group	III		
Environmental hazard	Marine Pollutant		

	EMS Number	F-A, S-F
Special precautions for user	Special provisions	274 335 969
	Limited Quantities	5 L

### Inland waterways transport (ADN)

UN number	3082			
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.			
Transport hazard class(es)	9 Not Applicable			
Packing group	11			
Environmental hazard	Environmentally hazardous			
Special precautions for	Classification codeM6Special provisions274; 335; 375; 601Limited quantity5 L			
user	Equipment required PP Fire cones number 0			

# 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
4-Fluoro- 3-phenoxybenzaldehyde	Not Available

# Transport in bulk in accordance with the IGC Code

Product name	Ship Type
4-Fluoro- 3-phenoxybenzaldehyde	Not Available

# **SECTION 15 Regulatory information**

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

4-Fluoro-3-phenoxybenzaldehyde is found on the following regulatory lists

Europe EC Inventory

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

# **National Inventory Status**

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	No (4-Fluoro-3-phenoxybenzaldehyde)	
Canada - DSL	No (4-Fluoro-3-phenoxybenzaldehyde)	
Canada - NDSL	Yes	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	No (4-Fluoro-3-phenoxybenzaldehyde)	
Korea - KECI	No (4-Fluoro-3-phenoxybenzaldehyde)	
New Zealand - NZIoC	No (4-Fluoro-3-phenoxybenzaldehyde)	
Philippines - PICCS	No (4-Fluoro-3-phenoxybenzaldehyde)	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (4-Fluoro-3-phenoxybenzaldehyde)	

National Inventory	Status		
Vietnam - NCI	No (4-Fluoro-3-phenoxybenzaldehyde)		
Russia - FBEPH	No (4-Fluoro-3-phenoxybenzaldehyde)		
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	05/07/2023
Initial Date	05/07/2023

### SDS Version Summary

Version	Date of Update	Sections Updated
2.4	05/07/2023	Hazards identification - Classification, Korean MSDS Number, Identification of the substance / mixture and of the company / undertaking - Supplier Information

### 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.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

### **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

# Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure	
Hazardous to the Aquatic Environment Long-Term Hazard Category 2, H411	Expert judgement	
Acute Toxicity (Oral) Category 4, H302	Expert judgement	
Serious Eye Damage/Eye Irritation Category 2, H319	Expert judgement	
Germ Cell Mutagenicity Category 2, H341	Calculation method	

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