

# Swift-Cut Automation Ltd

Version No: 1.1	Issue Date: 09/10/2023
Safety data sheet according to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758	Print Date: 10/01/2024
	S.REACH.GB.EN

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

## 1.1. Product Identifier

Product name	SWIFT-CUT 2309 (SWIFT-CUT 2309)			
Chemical Name	Not Applicable			
Synonyms	SWC-2309			
Chemical formula	Not Applicable			
Other means of identification	Not Available			

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

Relevant identified uses	Corrosion inhibitor for closed systems	
Uses advised against	No specific uses advised against are identified.	

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

Registered company name	Swift-Cut Automation Ltd
Address	1 Lancaster Park, Newborough Road Burton upon Trent DE13 9PD United Kingdom
Telephone	+44 (0)1543 473 300
Fax	Not Available
Website	www.swift-cut.co.uk
Email	support@swift-cut.co.uk

## 1.4. Emergency telephone number

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

## **SECTION 2 Hazards identification**

## 2.1. Classification of the substance or mixture

Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567 [1]	H317 - Sensitisation (Skin) Category 1		
Legend: 1. Classified by Chernwatch; 2. Classification drawn from GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567			

## 2.2. Label elements

Hazard pictogram(s)	
Signal word	Warning

Hazard	statement(s)
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H317 May cause an allergic skin reaction.

## Supplementary statement(s)

Not Applicable

## Precautionary statement(s) Prevention

. ,	
P280	Wear protective gloves and protective clothing.
P261	Avoid breathing mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.

## Precautionary statement(s) Response

P302+P352	IF ON SKIN: Wash with plenty of water.		
P333+P313	f skin irritation or rash occurs: Get medical advice/attention.		
P362+P364	Take off contaminated clothing and wash it before reuse.		

#### Precautionary statement(s) Storage

Not Applicable

## Precautionary statement(s) Disposal

P501	P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.		
2.3. Other hazards			
1H-bonzotriazolo	Determined to have endocrine-disrupting properties according to Europe Regulation (EU) 528/2012, Europe Regulation (EU) 2017/2100, and		

# **SECTION 3 Composition / information on ingredients**

Europe Regulation (EU) 2018/605

## 3.1.Substances

See 'Composition on ingredients' in Section 3.2

1H-benzotriazole

## 3.2.Mixtures

1. CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	SCL / M-Factor	Nanoform Particle Characteristics
1. 129836-12-0 2.Not Available 3.Not Available 4.Not Available	1-5	hydroxyphosphonoacetic acid. tripotassium salt	Acute Toxicity (Oral) Category 4, Sensitisation (Skin) Category 1; H302, H317 [1]	Not Available	Not Available
1. 95-14-7 2.202-394-1 3.Not Available 4.Not Available	1-5	<u>1H-benzotriazole</u> [e]	Acute Tox. 4, Serious Eye Damage/Eye Irritation Category 2; H302, H319 <sup>[3]</sup>	Not Available	Not Available
Legend:	egend: 1. Classified by Chemwatch; 2. Classification drawn from GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567; 3. Classification drawn from C&L * EU IOELVs available; [e] Substance identified as having endocrine disrupting properties				

# **SECTION 4 First aid measures**

## 4.1. Description of first aid measures

Eye Contact	If this product comes in contact with eyes: • Wash out immediately with water. • If irritation continues, seek medical attention. • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: <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>

# 4.2 Most important symptoms and effects, both acute and delayed

See Section 11

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

Treat symptomatically.

# 5.1. Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

## 5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
5.3. Advice for firefighters	
Fire Fighting	<ul> <li>Use water delivered as a fine spray to control fire and cool adjacent 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

6.1. Personal precautions, protective equipment and emergency procedures See section 8

## 6.2. Environmental precautions

See section 12

## 6.3. Methods and material for containment and cleaning up

Minor Spills	<ul> <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>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Prevent spillage from entering drains, sewers or water courses.</li> <li>Recover product wherever possible.</li> <li>Put residues in labelled containers for disposal.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul>

# 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## **SECTION 7 Handling and storage**

7.1. Precautions for safe handl	ing
Safe handling	<ul> <li>Limit all unnecessary personal contact.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</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 are maintained.</li> </ul>
Fire and explosion protection	See section 5
Other information	

## 7.2. 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
Hazard categories in accordance with Regulation (EC) No 1272/2008	Not Available
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	Not Available

# 7.3. Specific end use(s)

See section 1.2

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

## 8.1. Control parameters

Ingredient DNELs Exposure Pattern Worker		PNECs Compartment			
1H-benzotriazole	Dermal 0.24 mg/kg bw/day (Systemic, Chronic) Inhalation 4.2 mg/m <sup>3</sup> (Systemic, Chronic) Dermal 0.12 mg/kg bw/day (Systemic, Chronic) * Inhalation 2.1 mg/m <sup>3</sup> (Systemic, Chronic) * Oral 0.12 mg/kg bw/day (Systemic, Acute) *	97 μg/L (Water (Fresh)) 0.158 mg/L (Water - Intermittent release) 9.7 μg/L (Water (Marine)) 1.1 mg/kg sediment dw (Sediment (Fresh Water)) 0.11 mg/kg sediment dw (Sediment (Marine)) 0.169 mg/kg soil dw (Soil) 9.4 mg/L (STP)			

\* Values for General Population

## Occupational Exposure Limits (OEL)

INGREDIENT	
INGREDIENT	DAIA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available						

# Not Applicable

Emergency Limits						
Ingredient	TEEL-1	TEEL-2		TEEL-3		
1H-benzotriazole	1.2 mg/m3	13 mg/m3		77 mg/m3		
Ingredient	Original IDLH		Revised IDLH			
hydroxyphosphonoacetic acid, tripotassium salt	Not Available		Not Available			
1H-benzotriazole	Not Available		Not Available			

#### Occupational Exposure Banding

· · · · · · · · · · · · · · · · · · ·					
Ingredient	Occupational Exposure Band Rating Occupational Exposure Band Limit				
hydroxyphosphonoacetic acid, tripotassium salt	E	≤ 0.1 ppm			
1H-benzotriazole	E ≤ 0.01 mg/m <sup>3</sup>				
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.				

# 8.2. Exposure controls

8.2.1. Appropriate engineering controls	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. If risk of overexposure exists, wear SAA 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 (i	0.25-0.5 m/s (50-100 f/min)				
	aerosols, fumes from pouring operations, intermittent cont drift, plating acid fumes, pickling (released at low velocity i	0.5-1 m/s (100-200 f/min.)				
	direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min)				
	grinding, abrasive blasting, tumbling, high speed wheel ge 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				
	3: Intermittent, low production.	3: High production, heavy use				

4: Small hood - local control only 4: Large hood or large air mass in motion 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. 8.2.2. Individual protection measures, such as personal protective equipment Safety glasses with side shields Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent] Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption Eye and face protection 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]. Skin protection See Hand protection below Wear general protective gloves, eg. light weight rubber gloves. 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, · glove thickness and dexterity 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. · Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. Hands/feet protection · Contaminated gloves should be replaced. As defined in ASTM F-739-96 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 resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: . Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of. . Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended Body protection See Other protection below No special equipment needed when handling small quantities. OTHERWISE: Other protection Overalls. Barrier cream. Eyewash unit.

#### 8.2.3. Environmental exposure controls

See section 12

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

## 9.1. Information on basic physical and chemical properties

Appearance	Colourless to brown liquid			
Physical state	Liquid	Relative density (Water = 1)	1.00-1.10	
Odour	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available	

pH (as supplied)	7-8.5	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	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	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

## 9.2. Other information

Not Available

# **SECTION 10 Stability and reactivity**

10.1.Reactivity	See section 7.2
10.2. Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

# **SECTION 11 Toxicological information**

## 11.1. 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 NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.				
Skin Contact	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	Although the liquid is not thought to be an irritant (as class characterised by tearing or conjunctival redness (as with w	fied by EC Directives), direct contact with the eye may produce transient discomfort indburn).			
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.				
	τοχιςιτγ	IRRITATION			
SWIFT-CUT 2309 (SWIFT-CUT 2309)	Not Available	Not Available			
hydroxyphosphonoacetic	ΤΟΧΙΟΙΤΥ	IRRITATION			
acid, tripotassium salt	Not Available	Not Available			
	τοχιςιτγ	IRRITATION			
	Dermal (rabbit) LD50: >10000 mg/kg <sup>[2]</sup>	Eye (rabbit): moderate *			
1H-benzotriazole	Inhalation(Rat) LC50: 1.4 mg/L4h <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>			
	Oral (Rat) LD50: ~500 mg/kg <sup>[1]</sup>	Skin (rabbit): slight *			
		Skin: no adverse effect observed (not irritating) $^{\left[ 1\right] }$			
Legend:	1. Value obtained from Europe ECHA Registered Substan	ces - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise			

Bacterial mutagenicity: E. coli positive. Ames positive; HGPRT negative; micronuclues test (mouse) negative \*\*\*\* \* [Ciba Geigy] \*\* [Bayer] \*\*\* Merck \*\*\*\* Benzotriazoles Coalition Synthetic Organic Chemical Manufacturers Association December, 2001

	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 eosinophilia. 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. The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.					
Acute Toxicity	×	Carcinogenicity	×			
Skin Irritation/Corrosion	×	Reproductivity	×			
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×			
Respiratory or Skin sensitisation	*	STOT - Repeated Exposure	×			
Mutagenicity	×	Aspiration Hazard	×			
		•	t available or does not fill the criteria for classification to make classification			

#### 11.2 Information on other hazards

## 11.2.1. Endocrine disrupting properties

Many chemicals may mimic or interfere with the body s hormones, known as the endocrine system. Endocrine disruptors are chemicals that can interfere with endocrine (or hormonal) systems.

Endocrine disruptors interfere with the synthesis, secretion, transport, binding, action, or elimination of natural hormones in the body. Any system in the body controlled by hormones can be derailed by hormone disruptors. Specifically, endocrine disruptors may be associated with the development of learning disabilities, deformations of the body various cancers and sexual development problems.

Endocrine disrupting chemicals cause adverse effects in animals. But limited scientific information exists on potential health problems in humans. Because people are typically exposed to multiple endocrine disruptors at the same time, assessing public health effects is difficult.

#### 11.2.2. Other information

See Section 11.1

## **SECTION 12 Ecological information**

#### 12.1. Toxicity

SWIFT-CUT 2309 (SWIFT-CUT 2309)	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Availabl
hydroxyphosphonoacetic acid, tripotassium salt	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Availabl
	Endpoint	Test Duration (hr)	Species	Value	Source
	BCF	1008h	Fish	1.1-3	7
	EC50	72h	Algae or other aquatic plants	29mg/l	2
1H-benzotriazole	EC50	48h	Crustacea	20mg/l	Not Availabl
	EC50(ECx)	48h	Crustacea	20mg/l	Not Availabl
	LC50	96h	Fish	25mg/l	Not Availabl

- Bioconcentration Data 8. Vendor Data

#### 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
1H-benzotriazole	HIGH	HIGH

#### 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
1H-benzotriazole	LOW (BCF = 15)

## 12.4. Mobility in soil

Ingredient	Mobility
1H-benzotriazole	LOW (KOC = 996.2)

#### 12.5. Results of PBT and vPvB assessment

	P	В	т	
Relevant available data	Not Available	Not Available	Not Available	
PBT	×	×	×	
vPvB	×	×	×	
PBT Criteria fulfilled? No				
vPvB	No			

## 12.6. Endocrine disrupting properties

The evidence linking adverse effects to endocrine disruptors is more compelling in the environment than it is in humans. Endocrine distruptors profoundly alter reproductive physiology of ecosystems and ultimately impact entire populations. Some endocrine-disrupting chemicals are slow to break-down in the environment. That characteristic makes them potentially hazardous over long periods of time. Some well established adverse effects of endocrine disruptors in various wildlife species include; eggshell-thinning, displayed of characteristics of the opposite sex and impaired reproductive development. Other adverse changes in wildlife species that have been suggested, but not proven include; reproductive abnormalities, immune dysfunction and skeletal deformaties.

#### 12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

# **SECTION 13 Disposal considerations**

#### 13.1. Waste treatment methods 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 Product / Packaging disposal appropriate. DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material). Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed. Waste treatment options Not Available Not Available Sewage disposal options

#### **SECTION 14 Transport information**

#### Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

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

14.1. UN number or ID number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
14.3. Transport hazard	Class	Not Applie	cable
class(es)	Subsidiary Hazard	Not Applie	cable
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
	Hazard identification (K	(emler)	Not Applicable
	Classification code		Not Applicable
14.6. Special precautions for	Hazard Label		Not Applicable
user	Special provisions		Not Applicable
	Limited quantity		Not Applicable
	Tunnel Restriction Code	е	Not Applicable

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

14.1. UN number	Not Applicable			
14.2. UN proper shipping name	Not Applicable			
440. <b>T</b> ransmark barrand	ICAO/IATA Class Not Applicable			
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable		
	ERG Code	Not Applicable		
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
	Special provisions		Not Applicable	
	Cargo Only Packing Instructions		Not Applicable	
	Cargo Only Maximum Qty / Pack		Not Applicable	
14.6. Special precautions for user	Passenger and Cargo Packing Instructions		Not Applicable	
	Passenger and Cargo Maximum Qty / Pack		Not Applicable	
	Passenger and Cargo Limited Qu	antity Packing Instructions	Not Applicable	
	Passenger and Cargo Limited Maximum Qty / Pack		Not Applicable	

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

14.1. UN number	Not Applicable	
14.2. UN proper shipping name	Not Applicable	
14.3. Transport hazard class(es)	IMDG Class IMDG Subsidiary Hazard	Not Applicable       Not Applicable
14.4. Packing group	Not Applicable	
14.5 Environmental hazard	Not Applicable	
14.6. Special precautions for user	Special provisions No	ot Applicable ot Applicable ot Applicable

## Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	
14.2. UN proper shipping name	Not Applicable	
14.3. Transport hazard class(es)	Not Applicable Not Applicable	
14.4. Packing group	Not Applicable	
14.5. Environmental hazard	Not Applicable	
14.6. Special precautions for user	Classification codeNot ApplicableSpecial provisionsNot ApplicableLimited quantityNot ApplicableEquipment requiredNot ApplicableFire cones numberNot Applicable	

## 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
hydroxyphosphonoacetic acid, tripotassium salt	Not Available
1H-benzotriazole	Not Available

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

Product name	Ship Type
hydroxyphosphonoacetic acid, tripotassium salt	Not Available
1H-benzotriazole	Not Available

#### **SECTION 15 Regulatory information**

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

hydroxyphosphonoacetic acid, tripotassium salt is found on the following regulatory lists

Not Applicable

#### 1H-benzotriazole is found on the following regulatory lists

Great Britain GB mandatory classification and labelling (GB MCL) technical reports

#### Additional Regulatory Information

Not Applicable

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

## Information according to 2012/18/EU (Seveso III):

Seveso Category Not Available

## 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

#### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	No (hydroxyphosphonoacetic acid, tripotassium salt)
Canada - DSL	No (hydroxyphosphonoacetic acid, tripotassium salt)
Canada - NDSL	No (hydroxyphosphonoacetic acid, tripotassium salt)
China - IECSC	No (hydroxyphosphonoacetic acid, tripotassium salt)
Europe - EINEC / ELINCS / NLP	No (hydroxyphosphonoacetic acid, tripotassium salt)
Japan - ENCS	No (hydroxyphosphonoacetic acid, tripotassium salt)
Korea - KECI	No (hydroxyphosphonoacetic acid, tripotassium salt)
New Zealand - NZIoC	No (hydroxyphosphonoacetic acid, tripotassium salt)
Philippines - PICCS	No (hydroxyphosphonoacetic acid, tripotassium salt)
USA - TSCA	No (hydroxyphosphonoacetic acid, tripotassium salt)
Taiwan - TCSI	No (hydroxyphosphonoacetic acid, tripotassium salt)
Mexico - INSQ	No (hydroxyphosphonoacetic acid, tripotassium salt)
Vietnam - NCI	No (hydroxyphosphonoacetic acid, tripotassium salt)
Russia - FBEPH	No (hydroxyphosphonoacetic acid, tripotassium salt)
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**

Initial Date 23/02/2023	

#### Full text Risk and Hazard codes

H302	Harmful if swallowed.
H319	Causes serious eye irritation.

#### 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
- DNEL: Derived No-Effect Level PNEC: Predicted no-effect concentration
- AIIC: Australian Inventory of Industrial Chemicals
- ۲ DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List ۶
- IECSC: Inventory of Existing Chemical Substance in China
   EINECS: European INventory of Existing Commercial chemical Substances
   ELINCS: European List of Notified Chemical Substances
- ۲ NLP: No-Longer Polymers
- ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals ٠
- ۶
- PICCS: Philippine Inventory of Chemicals and Chemical Substances ۲
- TSCA: Toxic Substances Control Act
- ۲ TCSI: Taiwan Chemical Substance Inventory
- ۶ INSQ: Inventario Nacional de Sustancias Químicas
- ۲
- NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances ۲

#### 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
Sensitisation (Skin) Category 1, H317	Expert judgement

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