

HIP ULTRA (Hydrim Cleaning Solution with Instrument Protection)

SciCan Ltd
Version No: 1.1

Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878)

Issue Date: **16/10/2024**Print Date: **16/10/2024**S.REACH.CHE.EN

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

1.1. Product Identifier

Product name	HIP ULTRA (Hydrim Cleaning Solution with Instrument Protection)	
Synonyms	Not Available	
Other means of identification	Not Available	

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

Relevant identified uses	Cleaner for Hydrim automatic instrument processor machines.	
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	SciCan Ltd.	
Address	1440 Don Mills Road Toronto Ontario M3B 3P9 Canada	
Telephone	1 416 445 1600	
Fax	+1 416 445 2727	
Website	http://www.scican.com/	
Email	customerservice@scican.com	

1.4. Emergency telephone number

Association / Organisation	InfoTrac		
Emergency telephone numbers	1-800-535-5053		
Other emergency telephone numbers	Not Available		

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments ^[2]	H319 - Serious Eye Damage/Eye Irritation Category 2, H302 – Acute toxicity (oral) Category 4
Legend:	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

2.2. Label elements

Hazard pictogram(s)	<u>•</u>
Signal word	Warning

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Hazard statement(s)

H302	Harmful if swallowed.
H319	Causes serious eye irritation.

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

P264	Wash hands thoroughly after handling.	
P270	P270 Do not eat, drink or smoke when using this product.	
P280 Wear eye protection.		

Precautionary statement(s) Response

P301+P312	IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.		
P330	Rinse mouth.		
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.		

Precautionary statement(s) Storage

Not applicable

Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local or regional regulations.
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2.3. Other hazards

Not applicable

SECTION 3 Composition / information on ingredients

3.1. Substances

See 'Composition on ingredients' in Section 3.2

3.2. Mixtures

1. CAS No 2. EC No 3. Index No 4. REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor	Nanoform Particle Characteristics
1. 14860-53-8* 2. 238-928-5 3.Not Available 4.Not Available	5-10	tetrapotassium 1-hydroxyethylidene diphosphonate	Acute Toxicity (Oral) Category 4, Serious Eye Damage/Eye Irritation Category 2; H302, H319 ^[1]	Not Available	Not Available
1. 1300-72-7 2. 215-090-9 3. Not Available 4. Not Available	5-10	sodium xylenesulfonate	Serious Eye Damage/Eye Irritation Category 2; H319 [1]	Not Available	Not Available
1.2687-94-7 2.403-700-8 3.613-098-00-0 4.Not Available	1-5	1-octyl-2-pyrrolidone	Skin Corrosion/Irritation Category 1B, Hazardous to the Aquatic Environment Long- Term Hazard Category 2; H314, H411 [2]	Not Available	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

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SECTION 4 First aid measures

4.1. Description of first aid measures

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	If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water.	
Eye Contact	Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.	
	Seek medical attention if irritation develops or persists.	
	If skin or hair contact occurs:	
Skin Contact	▶ Wash skin and hair with running water.	
Inhalation	▶ No specific first aid measures are required.	
Ingestion	 For advice, contact a Poisons Information Centre or a doctor at once. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. 	
	 Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. 	

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.

SECTION 5 Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substrate or mixture

May emit corrosive fumes.

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Fire Incompatibility	None known.	
5.3. Advice for firefighters		
 Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. DO NOT approach containers suspected to be hot. 		
	 Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. 	
Fire/Explosion Hazard	 Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit irritating/ toxic fumes. May emit acrid smoke. Mists containing combustible materials may be explosive. May emit poisonous fumes. 	

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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

	▶ Remove all ignition sources. ▶ Clean up all spills immediately.
Minor Spills	Avoid breathing vapours and contact with skin and eyes.
	▶Control personal contact with the substance, by using protective equipment.
	▶ Contain and absorb spill with sand, earth, inert material or vermiculite.
	▶ Contain and absorb spill with sand, earth, inert material or vermiculite.
	▶ Wipe up.
	Moderate hazard.
	Clear area of personnel and move upwind.
	▶ Alert Fire Brigade and tell them location and nature of hazard.
	▶ Wear breathing apparatus plus protective gloves.
	▶ Prevent, by any means available, spillage from entering drains or water course.
Major Spills	 No smoking, naked lights or ignition sources. Increase ventilation.
	▶ Stop leak if safe to do so.
	▶ Contain spill with sand, earth or vermiculite.
	Collect recoverable product into labelled containers for recycling.
	Absorb remaining product with sand, earth or vermiculite.
	▶ Collect solid residues and seal in labelled drums for disposal.
	Wash area and prevent runoff into drains.
	▶ If contamination of drains or waterways occurs, advise
	emergency services.

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 handling

	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials.
Safe handling	▶ When handling, DO NOT eat, drink or smoke.
	Keep containers securely sealed when not in use.
	Avoid physical damage to containers.
	Always wash hands with soap and water after handling.
	▶ Work clothes should be laundered separately.
	Use good occupational work practice.
	▶ Observe manufacturer's storage and handling recommendations contained within this SDS.
	Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.
	DO NOT allow clothing wet with material to stay in contact with skin
Fire and explosion protection	See section 5

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Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

7.2. Conditions for safe storage, including any incompatibilities

Suitable container	Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	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
1-octyl-2-pyrrolidone	Dermal 2.5 mg/kg bw/day (Systemic, Chronic) Inhalation 17.45 mg/m³ (Systemic, Chronic) Dermal 1.25 mg/kg bw/day (Systemic, Chronic) * Inhalation 5.75 mg/m³ (Systemic, Chronic) * Oral 1.25 mg/kg bw/day (Systemic, Chronic) *	0.012 mg/L (Water (Fresh)) 0.076 mg/L (Water - Intermittent release) 0.001 mg/L (Water (Marine)) 0.081 mg/kg sediment dw (Sediment (Fresh Water)) 0.008 mg/kg sediment dw (Sediment (Marine)) 0.059 mg/kg soil dw (Soil) 2.5 mg/L (STP)

^{*} Values for General Population

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Emergency Limits

Ingredient	Original IDLH	Revised IDLH
tetrapotassium 1-hydroxyethylidene diphosphonate	Not Available	Not Available
sodium xylenesulfonate	Not Available	Not Available
1-octyl-2-pyrrolidone	Not Available	Not Available

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Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
tetrapotassium 1- hydroxyethylidene diphosphonate	Е	≤ 0.01 mg/m³
sodium xylenesulfonate	E	≤ 0.01 mg/m³
1-octyl-2-pyrrolidone	C > 1 to ≤ 10 parts per million (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.	

8.2. 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 special circumstances. If risk of overexposure exists, wear approved respirator. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. Provide adequate ventilation in warehouses and enclosed 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.

8.2.1. Appropriate engineering controls

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)
aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)
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 generated dusts (released at high initial velocity 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
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.

8.2.2. Individual protection measures, such as personal protective equipment



Eye and face protection

- ▶ Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

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Skin protection	See Hand protection below
Hands/feet protection	▶ Not normally required.
Body protection	▶ Not normally required.
Other protection	▶ Eye wash unit.

Respiratory protection

Not normally required.

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	Not Available		
Physical state	Liquid	Relative density (Water =1)	1.113
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	9.3-9.8	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)	>93.3	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
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	 Unstable in the presence of incompatible materials. Product is considered stable. 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

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10.6. Hazardous decomposition products

See section 5.3

SECTION 11 Toxicological information

	The material is not thought to produce adverse hea	Ith effects following inhalation (as classified	by EC Directives using animal	
		ave been produced following expenses of an	,	
	models). Nevertheless, adverse systemic effects ha and good hygiene practice requires that exposure b		•	
Inhaled	occupational setting.			
	The material can produce chemical burns within the	e oral cavity and gastrointestinal tract followi	ng ingestion.	
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual. Ingestion of anionic surfactants may produce diarrhoea, bloated stomach, and occasional vomiting.			
	Skin contact is not thought to have harmful health e health damage following entry through wounds, lesi		ne material may still produce	
	Anionic surfactants can cause skin redness and pai	in, as well as a rash. Cracking, scaling and l	olistering can occur.	
Skin Contact	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.			
	The material can produce chemical burns to the ey	ye following direct contact. Vapours or mists	s may be extremely irritating.	
Eye If applied to the eyes, this material causes severe eye damage.				
	Direct eye contact with some anionic surfactants in high concentration can cause severe damage to the cornea. Low concentrations can cause discomfort, excess blood flow, and corneal clouding and swelling. Recovery may take several days.			
	concentrations can cause discomfort, excess blood	flow, and corneal clouding and swelling. Re	ecovery may take several days.	
	Repeated or prolonged exposure to corrosives may	result in the erosion of teeth, inflammatory	and ulcerative changes in the	
	mouth and necrosis (rarely) of the jaw. Bronchial irr		•	
Chronic	Although the salt of the organophosphate has not b acid revealed loss in body weight and changes in the		aminotris(methylenephosphonic)	
GIII GIII G	add revealed loss in body weight and changes in the	e weight of the liver, spiceri and kidney.		
	TOXICITY	IRRITATION		
	Inhalation LC50: > 20 mg/L	Not available		
HIP ULTRA (Hydrim Cleaning Solution with Instrument Protection)	Oral LD50: >500 mg/kg	Not available		
	Dermal LD50: >5000 mg/kg Not available			
Protection)				
tetrapotassium 1-hydroxyethylidene	TOWOTTV		IDDITATION	
tetrapotassium	TOXICITY Oral (Rat) LD50: 520 mg/kg ^[2]	'	IRRITATION	

sodium xylenesulfonate

TOXICITY	IRRITATION
Oral (Rat) LD50: >10 mg/kg ^[2]	Eye: adverse effect observed (irritating) ^[1]
	Skin: no adverse effect observed (not irritating) ^[1]

1-octyl-2-pyrrolidone

TOXICITY	IRRITATION
Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Eye: adverse effect observed (irritating) ^[1]
Oral (Rat) LD50: 2050 mg/kg ^[1]	Skin: adverse effect observed (corrosive) ^[1]

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

tetrapotassium 1hydroxyethylidene diphosphonate

For ATMP (aminotris(methylenephosphonic acid)) and its salts:

ATMP acid, the monosodium salt and hexasodium salts cause serious eye irritation, while the disodium to pentasodium salts do not cause eye irritation. The low pH would predict that ATMP acid should be severely irritant or corrosive to skin as well as eyes. Acute toxicity: In animals, ATMP has low acute toxicity.

Sensitisation: Based on animal data and human exposure reports, ATMP is not classified with respect to skin sensitization.

Toxicity after repeated exposure: Not classified.

Genetic toxicity / mutation-causing potential: ATMP and its salts do not cause genetic toxicity or mutations.

Cancer-causing potential: ATMP sodium salts and the acid are not expected to cause cancer.

Reproductive toxicity: Based on animal testing, ATMP and its salts do not cause reproductive toxicity.

sodium xylenesulfonate

For alkyl sulfates; alkane sulfonates and alpha-olefin sulfonates

Most chemicals of this category are not defined substances, but mixtures of homologues with different alkyl side chains. They result in structurally similar breakdown products, and are, together with the surfactant properties, responsible for similar environmental behavior and essentially identical hazard profiles with regard to human health.

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Acute toxicity: These substances are well absorbed after ingestion; penetration through the skin is however, poor. After absorption, these chemicals are distributed mainly to the liver. In animals, signs of poisoning by mouth include lethargy, hair standing up, decreased motor activity and breathing rate, and diarrhea. Poisoning from skin contact caused irritation, tremor, tonic-clonic convulsions, breathing failure, and weight loss. In eye irritation tests: with increasing alkyl chain length, the irritating potential decreases, and the longer species are only mildly irritant.

Repeated skin contact with some sulfonated surfactants has produced skin inflammation in predisposed individuals. Repeat dose toxicity: The liver seems to be the only organ that is affected by repeated exposure, with elevated levels of liver enzymes, an increase in liver weight and enlargement of liver cells being seen.

Genetic toxicity: Alkyl sulfates and alkyl-olefin sulfonates do not appear to cause mutations or genetic toxicity.

Cancer-causing potential: Animal testing suggested that alpha-olefin sulfonates do not have cancer-causing potential.

Reproductive toxicity: In animal testing, these substances only caused harm to the fetus and/or offspring at levels which were

toxic to the mother.

Developmental toxicity: Alkane sulfonates are not considered to be toxic to development.

Toxicological data is available and well documented for representative toluene, xylene and cumene sulfonates (including sodium, potassium, ammonium and calcium salts). These data show that hydrotropes have low toxicity for all routes, do not cause genetic damage, show no evidence of causing cancer in long-term skin studies, and have not caused birth defects, developmental defects or reduced fertility.

1-OCTYL-2-PYRROLIDONE

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration.

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: X - Data either not available or does not fill the criteria for classification

0.91mg/l

Data available to make classification

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11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

NOEC(ECx)

840h

11.2.2. Other information

See Section 11.1

SECTION 12 Ecological information

12.1. Toxicity

IP ULTRA (Hydrim Cleaning Solution with Instrument	Endpoint	Test Duration (hr)		Species	Value		Source		
Protection)	Not Available	Available Not Available		Not Available	Not Available		Not Available		
tetrapotassium									
1-hydroxyethylidene diphosphonate	Endpoint	point Test Duration (hr)		Species Value		alue S		Source	
	Not Available	Not Available		Not Available	Not Available		Not Availa	ble	
sodium xylenesulfonate									
	Endpoint	Test Duration (hr)	Spe	cies		Value		Source	
	EC50	72h	Alga	ae or other aquatic pl	ants	~252mg	/I	2	
	EC50	48h	Crus	Crustacea		>400mg	/I	1	
	EC50	96h	Alga	Algae or other aquatic plants		>=230m	g/l	2	
	NOEC(ECx)	72h	Alga	ae or other aquatic pl	ants	40mg/l		2	
1-octyl-2-pyrrolidone									
	Endpoint	Test Duration (hr)	Spe	ecies		Value		Source	
	EC50	72h	Alg	ae or other aquatic p	lants	9.27mg	/I	2	
	EC50	48h	Cru	stacea		7.59mg	/I	2	
	EC50	96h	Alg	ae or other aquatic p	lants	6.2mg/l		2	
	LC50	96h	Fish	1		~17.8m	g/l	2	

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12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air	
1-octyl-2-pyrrolidone	LOW	LOW	

12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
1-octyl-2-pyrrolidone	LOW (LogKOW = 3.3314)

12.4. Mobility in soil

Ingredient	Mobility
1-octyl-2-pyrrolidone	LOW (KOC = 1593)

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

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

Product / Packaging disposal	 Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Where possible retain label warnings and SDS and observe all notices pertaining to the product. 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. Recycle containers if possible, or dispose of in an authorised landfill.
Waste treatment options	Not Available
Sewage disposal options	Not Available

SECTION 14 Transport information

Labels Required

Marine Pollutant	NO

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

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4.3. Transport haz	ard	Not Applicable			
class(es)	Subsidiary Hazard	Not Applicable			
1.4. Packing grou	Not Applicable				
4.5. Environmenta hazard	Not Applicable				
	Hazard identifica	ation (Kemler) Not	Applicable		
	Classification co	de Not	Applicable		
4.6. Special preca	utions Hazard Label	Not	Applicable		
for user	Special provision	ns Not	Applicable		
	Limited quantity	Not	Applicable		
	Tunnel Restriction	on Code 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			
14.3. Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subsidiary Hazard	Not Applicable 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 Quantity 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 N	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

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	Classification code	Not Applicable
	Special provisions	Not Applicable
14.6. Special precautions for user	Limited quantity	Not Applicable
ioi usei	Equipment required	Not Applicable
	Fire cones number	Not Applicable
	1 110 001100 110111001	1101716

14.7. Maritime transport in bulk according to IMO instruments

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
tetrapotassium 1-hydroxyethylidene diphosphonate	Not Available
sodium xylenesulfonate	Not Available
1-octyl-2-pyrrolidone	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
tetrapotassium 1-hydroxyethylidene diphosphonate	Not Available
sodium xylenesulfonate	Not Available
1-octyl-2-pyrrolidone	Not Available

SECTION 15 Regulatory information

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

tetrapotassium 1-hydroxyethylidene diphosphonate is found on the following regulatory lists

Europe EC Inventory

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

sodium xylenesulfonate is found on the following regulatory lists

Europe EC Inventory

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

1-octyl-2-pyrrolidone is found on the following regulatory lists

Europe EC Inventory

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

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	Yes
Canada - DSL	No (tetrapotassium 1-hydroxyethylidene diphosphonate)
Canada - NDSL	No (sodium xylenesulfonate; 1-octyl-2-pyrrolidone)

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01: 15000	W.
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	No
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (tetrapotassium 1-hydroxyethylidene diphosphonate; 1-octyl-2-pyrrolidone)

National Inventory	Status
Vietnam - NCI	Yes
Russia - FBEPH	No (tetrapotassium 1-hydroxyethylidene diphosphonate)
	V 48040 L L 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1:

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	16/10/2024
Initial Date	09/11/2015

Full text Risk and Hazard codes

H302	Harmful if swallowed.
H319	Causes serious eye irritation.

Other information

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

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
Serious Eye Damage/Eye Irritation Category 2, H319	Calculation method
Acute toxicity (oral) Category 4, H302	Test

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