

Apollo Scientific

Part Number: **OR97111** Version No: **1.1** Safety Data Sheet Chemwatch Hazard Alert Code: 2

Issue Date: **13/10/2023** Print Date: **13/10/2023** S.GHS.GB-NIR.EN

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

Product Identifier

Product name	3,5-Dimethyloxan-4-one			
Chemical Name	5-dimethyloxan-4-one			
Synonyms	Available			
Proper shipping name	KETONES, LIQUID, N.O.S.			
Other means of identification	Not Available			
CAS number				

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

Relevant identified uses	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 SK62QR United Kingdom Whitefield Road, Bredbury SK62QR Northern Ireland (UK)				
Telephone	01614060505 +44(0) 161 406 0505					
Fax	ax 0161 406 0506 Not Available					
Website	ttp://www.apolloscientific.co.uk/ apolloscientific.co.uk					
Email	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 amendments ^[1]	H226 - Flammable Liquids Category 3				
Legend:	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI				

Hazard pictogram(s)	
Signal word	Warning

Hazard statement(s)

H226 Flammable liquid and vapour.

Precautionary statement(s) Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.				
P233	Keep container tightly closed.				
P240	round and bond container and receiving equipment.				
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.				
P242	Use non-sparking tools.				
P243	Take action to prevent static discharges.				
P280	Wear protective gloves and protective clothing.				

Precautionary statement(s) Response

P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].	

Precautionary statement(s) Storage

P403+P235

Store in a well-ventilated place. Keep cool.

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
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

SECTION 4 First aid measures

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: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. 		
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. 		
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. 		

Indication of any immediate medical attention and special treatment needed

for simple ketones:

BASIC TREATMENT

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 l/min.
- Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5mL/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.
- Give activated charcoal.

ADVANCED TREATMENT

- + Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Consider intubation at first sign of upper airway obstruction resulting from oedema.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- + Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

EMERGENCY DEPARTMENT

- Laboratory analysis of complete blood count, serum electrolytes, BUN, creatinine, glucose, urinalysis, baseline for serum aminotransferases (ALT and AST), calcium, phosphorus and magnesium, may assist in establishing a treatment regime. Other useful analyses include an on and osmolar gaps, arterial blood
- calcium, phosphorus and magnesium, may assist in establishing a treatment regime. Other useful analyses include anion and osmolar gaps, arterial blood gases (ABGs), chest radiographs and electrocardiograph.
- Positive end-expiratory pressure (PEEP)-assisted ventilation may be required for acute parenchymal injury or adult respiratory distress syndrome.
- Consult a toxicologist as necessary.
- BRONSTEIN, A.C. and CURRANCE, P.L.

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

SECTION 5 Firefighting measures

Extinguishing media

Special hazards arising from the substrate or mixture

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

Fire Fighting	
Fire/Explosion Hazard	 Liquid and vapour are flammable. Moderate fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Moderate explosion hazard when exposed to heat or flame. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic/ irritating fumes.

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

	 Remove all ignition sources. Clean up all spills immediately.
	Avoid breathing vapours and contact with skin and eyes.
Minor Spills	Control personal contact with the substance, by using protective equipment.
	Contain and absorb small quantities with vermiculite or other absorbent material.
	▶ Wipe up.

Major Spills

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

SECTION 7 Handling and storage

	Containers, even those that have been emptied, may contain explosive vapours.
	Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
	Avoid all personal contact, including inhalation.
	Wear protective clothing when risk of overexposure occurs.
	Use in a well-ventilated area.
	Prevent concentration in hollows and sumps.
	DO NOT enter confined spaces until atmosphere has been checked.
	Avoid smoking, naked lights or ignition sources.
	Avoid generation of static electricity.
	DO NOT use plastic buckets.
Safe handling	Earth all lines and equipment.
	Use spark-free tools when handling.
	Avoid contact with incompatible materials.
	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.
	Store in original containers in approved flammable liquid storage area.
	Store away from incompatible materials in a cool, dry, well-ventilated area.
	DO NOT store in pits, depressions, basements or areas where vapours may be trapped.
	No smoking, naked lights, heat or ignition sources.
	Storage areas should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorised
	personnel - adequate security must be provided so that unauthorised personnel do not have access.
	Store according to applicable regulations for flammable materials for storage tanks, containers, piping, buildings, rooms,
	cabinets, allowable quantities and minimum storage distances.
	Use non-sparking ventilation systems, approved explosion proof equipment and intrinsically safe electrical systems.
Other information	Have appropriate extinguishing capability in storage area (e.g. portable fire extinguishers - dry chemical, foam or carbon
	dioxide) and flammable gas detectors.
	Keep adsorbents for leaks and spills readily available.
	Protect containers against physical damage and check regularly for leaks.
	Observe manufacturer's storage and handling recommendations contained within this SDS.
	In addition, for tank storages (where appropriate):
	 Store in grounded, properly designed and approved vessels and away from incompatible materials.
	 For bulk storages, consider use of floating roof or nitrogen blanketed vessels; where venting to atmosphere is possible, equip
	storage tank vents with flame arrestors; inspect tank vents during winter conditions for vapour/ ice build-up.
	Storage tanks should be above ground and diked to hold entire contents.

Conditions for safe storage, including any incompatibilities

Suitable container	 Packing as supplied by manufacturer. Plastic containers may only be used if approved for flammable liquid. Check that containers are clearly labelled and free from leaks. For low viscosity materials (i) : Drums and jerry cans must be of the non-removable head type. (ii) : Where a can is to be used as an inner package, the can must have a screwed enclosure. For materials with a viscosity of at least 2680 cSt. (23 deg. C) For manufactured product having a viscosity of at least 250 cSt. (23 deg. C) Manufactured product that requires stirring before use and having a viscosity of at least 20 cSt (25 deg. C): (i) Removable head packaging; (ii) Cans with friction closures and (iii) low pressure tubes and cartridges may be used. Where combination packages are used, and the inner packages are of glass, there must be sufficient inert cushioning material in contact with inner and outer packages In addition, where inner packagings are glass and contain liquids of packing group I there must be sufficient inert absorbent to absorb any spillage, unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.
Storage incompatibility	Avoid reaction with oxidising agents

SECTION 8 Exposure controls / personal protection

3,5-Dimethyloxan-4-one

INGREDIENT DATA

Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
3,5-Dimethyloxan-4-one	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
3,5-Dimethyloxan-4-one	Not Available		Not Available	

Exposure controls

	Engineering controls are used to remove a hazard or place engineering controls can be highly effective in protecting w provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job acti Enclosure and/or isolation of emission source which keeps that strategically "adds" and "removes" air in the work envir designed properly. The design of a ventilation system must Employers may need to use multiple types of controls to pr For flammable liquids and flammable gases, local exhaust Ventilation equipment should be explosion-resistant. Air contaminants generated in the workplace possess vary velocities" of fresh circulating air required to effectively rem	orkers and will typically be indepen- ivity or process is done to reduce to a selected hazard "physically" aw ronment. Ventilation can remove of t match the particular process and revent employee overexposure. ventilation or a process enclosure ing "escape" velocities which, in tu	ndent of worker intera the risk. ray from the worker ar or dilute an air contami chemical or contamin ventilation system ma	nd ventilation inant if nant in use. ay be required.
	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 com spray drift, plating acid fumes, pickling (released at low ve		-	0.5-1 m/s (100-200 f/min.)
	direct spray, spray painting in shallow booths, drum filling, (active generation into zone of rapid air motion)	, conveyer loading, crusher dusts,	gas discharge	1-2.5 m/s (200-500 f/min.)
Appropriate engineering	Within each range the appropriate value depends on:			
controls	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 dista generally decreases with the square of distance from the e extraction point should be adjusted, accordingly, after refer extraction fan, for example, should be a minimum of 1-2 m meters distant from the extraction point. Other mechanical apparatus, make it essential that theoretical air velocities a installed or used. • Adequate ventilation is typically taken to be that which lim the building, room or enclosure containing the dangerous s • Ventilation for plant and machinery is normally considered substance that might potentially be present to no more that can be acceptable where additional safeguards are provided example, gas detectors linked to emergency shutdown of t • Temporary exhaust ventilation systems may be provided to maintenance in tanks or other confined spaces or in an em should be carefully considered The atmosphere should be area remains safe. Where workers will enter the space, the substance does not exceed 10% of the LEL (irrespective or	extraction point (in simple cases). T rence to distance from the contami /s (200-400 f/min.) for extraction of considerations, producing perform are multiplied by factors of 10 or manifest but the average concentration to n substance. d adequate if it limits the average of n 25% of the LEL. However, an indeed to prevent the formation of a has the process might be used togethe turbine enclosures. for non-routine higher-risk activitie tergency after a release. The work e continuously monitored to ensure a ventilation should ensure that the	Therefore the air spee- inating source. The air f solvents generated i nance deficits within the ore when extraction sy o more than 25% of the concentration of any de crease up to a maximu- izardous explosive atri- r with maintaining or i s, such as cleaning, re- procedures for such a concentration of the	d at the r velocity at the n a tank 2 ne extraction ystems are he LEL within langerous um 50% LEL nosphere. For ncreasing the epair or activities lequate and the
Individual protection measures, such as personal protective equipment				

Safety glasses with side shields

	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 be 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].
Skin protection	See Hand protection below
Hands/feet protection	 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, ohemical resistance of glove material, glove thickness and elect 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). 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-ter use. Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are rated as: Excellent when breakthrough time < 20 min Good when breakthrough time < 20 min Fai when breakthrough time < 2
Body protection	See Other protection below
Other protection	 Overalls. PVC Apron. PVC protective suit may be required if exposure severe. Eyewash unit. Ensure there is ready access to a safety shower. Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity. For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets). Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot an shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds. Electrical resistance must range between 0 to 500,000 ohms. Conductive shoes should be stored in lockers close to the room in which they are worn. Personnel who have been issued conductive footwear should not wear them from their place of work to their bottom.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

homes and return.

Appearance	Not Available		
Physical state	Liquid	Relative density (Water =	Not Available

Odour	Not Available	Partition coefficient 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)	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	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	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
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

	ΤΟΧΙΟΙΤΥ	IRRITATION	
Chronic	Long-term exposure to the product is not thought to p using animal models); nevertheless exposure by all r	broduce chronic effects adverse to the health (as classified by EC Directives outes should be minimised as a matter of course.	
Eye	Although the liquid is not thought to be an irritant (as transient discomfort characterised by tearing or conju	classified by EC Directives), direct contact with the eye may produce inctival redness (as with windburn).	
Skin Contact	U	n effects or skin irritation following contact (as classified by EC Directives ractice requires that exposure be kept to a minimum and that suitable gloves	
Ingestion	The material has NOT been classified by EC Directiv of the lack of corroborating animal or human evidenc	es or other classification systems as "harmful by ingestion". This is because e.	
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. Ketone vapours irritate the nose, throat and mucous membrane. High concentrations depress the central nervous system, causing headache, vertigo, poor concentration, sleep and failure of the heart and breathing.		

2 E Dimethyloxon 4 one	TOXICITY	IRRITATION
3,5-Dimethyloxan-4-one	Not Available	Not Available

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3,5-Dimethyloxan-4-one

Acute Toxicity	×	Carcinogenicity	×
kin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

- Data either not available or does not fill the criteria for classification Data available to make classification

SECTION 12 Ecological information

	Endpoint	Test Duration (hr)	Species	Value	Source	
3,5-Dimethyloxan-4-one	Епаропп	Test Duration (III)	Species	value	Source	
5,5-Dimetryloxall 4-One	Not Available Not Available		Not Available	Not Available	Not Available	
Legend:	Extracted from 1. IL	ICLID Toxicity Data 2. Europe I	ECHA Registered Substan	ces - Ecotoxicological Ir	nformation - Aquatic T	
	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					

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air		
	No Data available for all ingredients	No Data available for all ingredients		

Bioaccumulative potential

Ingredient	Bioaccumulation	
	No Data available for all ingredients	

Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

SECTION 13 Disposal considerations

Waste treatment methods Product / Packaging disposal	 Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: Reduction Reuse Recycling Disposal (if all else fails) This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. 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
	 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.

Labels Required

Labels Required	
Marine Pollutant	NO

Land transport (ADR-RID)

14.1. UN number or ID number	1224					
14.2. UN proper shipping name	KETONES, LIQUID, N.O.S.					
14.3. Transport hazard	Class	Class 3				
class(es)	Subsidiary Hazard	Not Appli	cable			
14.4. Packing group	ш					
14.5. Environmental hazard	Not Applicable					
	Hazard identificatior	n (Kemler)	30			
	Classification code		F1			
14.6. Special precautions	Hazard Label		3			
for user	Special provisions		274			
	Limited quantity		5 L			
	Tunnel Restriction C	ode	Not Applicable			

Air transport (ICAO-IATA / DGR)

14.1. UN number	1224		
14.2. UN proper shipping name	Ketones, liquid, n.o.s. *		
	ICAO/IATA Class 3		
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable	
01033(63)	ERG Code	3L	
14.4. Packing group	111		
14.5. Environmental hazard	Not Applicable		
	Special provisions		
	Cargo Only Packing Instructions		
	Cargo Only Maximum Qty / Pack		
14.6. Special precautions for user	Passenger and Cargo Packing Instructions		
	Passenger and Cargo Maximum Qty / Pack		
	Passenger and Cargo Limited Quantity Packing Instructions		
	Passenger and Cargo Limited Maximum Qty / Pack		

Sea transport (IMDG-Code / GGVSee)

• •				
14.1. UN number	1224			
14.2. UN proper shipping name	KETONES, LIQUID, N.O.S.			
14.3. Transport hazard	IMDG Class	3		
class(es)	IMDG Subsidiary Ha	azard Not Applicable		
14.4. Packing group	Ш	III		
14.5 Environmental hazard	Not Applicable	Not Applicable		
	EMS Number	F-E, S-D		
14.6. Special precautions	utions Special provisions 223 274			

3,5-Dimethyloxan-4-one

Inland waterways transport (ADN)

	. ,			
14.1. UN number	1224	1224		
14.2. UN proper shipping name	KETONES, LIQUID, N.O.S.			
14.3. Transport hazard class(es)	3 Not Applicable			
14.4. Packing group	ш			
14.5. Environmental hazard	Not Applicable			
	Classification code	F1		
	Special provisions	274		
14.6. Special precautions for user	Limited quantity	5 L		
	Equipment required	PP, EX, A		
	Fire cones number	0		

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
14.7.3. Transport in bulk i	n accordance with the IGC Code

Product name Ship Type

SECTION 15 Regulatory information

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

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Not Available
Canada - DSL	Not Available
Canada - NDSL	Not Available
China - IECSC	Not Available
Europe - EINEC / ELINCS / NLP	Not Available
Japan - ENCS	Not Available
Korea - KECI	Not Available
New Zealand - NZIoC	Not Available
Philippines - PICCS	Not Available
USA - TSCA	Not Available
Taiwan - TCSI	Not Available
Mexico - INSQ	Not Available
Vietnam - NCI	Not Available
Russia - FBEPH	Not Available
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	13/10/2023
Initial Date	13/10/2023

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch

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3,5-Dimethyloxan-4-one

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
Flammable Liquids Category 3, H226	Expert judgement

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