

Ardex SG

ARDEX (Ardex Australia)

Chemwatch: 7941-87 Version No: 2.1 Chemwatch Hazard Alert Code: 1

Issue Date: 13/03/2025 Print Date: 13/03/2025 L.GHS.AUS.EN.E

Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements

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

Product Identifier

Product name	Ardex SG
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

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

Relevant identitied uses	noothing agent. e according to manufacturer's directions.
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Details of the manufacturer or supplier of the safety data sheet

Registered company name	ARDEX (Ardex Australia)
Address	2 Buda Way Kemps Creek NSW 2147 Australia
Telephone	1300 788 780
Fax	1300 780 102
Website	www.ardexaustralia.com
Email	technical.services@ardexaustralia.com

Emergency telephone number

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Association / Organisation	ARDEX (ARDEX Australia)
Emergency telephone number(s)	1800 224 070 (Mon-Fri, 9am-5pm)
Other emergency telephone number(s)	Not Available

SECTION 2 Hazards identification

Classification of the substance or mixture

NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable	
Classification ^[1]	Hazardous to the Aquatic Environment Acute Hazard Category 3	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

Label elements

Laber elements		
Hazard pictogram(s)	Not Applicable	
Signal word	Not Applicable	
Hazard statement(s)		
H402	Harmful to aquatic life.	
Precautionary statement(s) Pre	Precautionary statement(s) Prevention	
P273	Avoid release to the environment.	

Not Applicable

Precautionary statement(s) Storage

Not Applicable Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
1643-20-5	0.1-<1	lauryldimethylamine oxide
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available	

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 contact occurs: Immediately remove all contaminated clothing, including footwear. 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

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

- Water spray or fog.
- Foam.
- Dry chemical powder.
- BCF (where regulations permit).Carbon dioxide.
- Do not use water jets.

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	
Advice for firefighters		

Fire Fighting Prevent, by any means available, spillage Use water delivered as a fine spray to con Avoid spraying water onto liquid pools. DO NOT approach containers suspected Cool fire exposed containers with water s If safe to do so, remove containers from p 	ntrol fire and cool adjacent area. to be hot. pray from a protected location.
Fire/Explosion Hazard Non combustible. Not considered a significant fire risk, how Decomposition may produce toxic fumes of: carbon dioxide (CO2) nitrogen oxides (NOX) other pyrolysis products typical of burning org May emit corrosive fumes. 	
HAZCHEM Not Applicable	

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Minor Spills	 Remove all ignition sources. Clean up all spills immediately. 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. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	 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. 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.

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

SECTION 7 Handling and storage

Precautions for safe handling	
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. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. 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.
Other information	 Store in original containers. Keep containers securely sealed. 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.

Conditions for safe storage, including any incompatibilities

....... .	
Suitable container	 Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	Avoid reaction with oxidising agents

SECTION 8 Exposure controls / personal protection

Control parameters

Occupationa	Exposure	Limits	(OEL)
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INGREDIENT DATA

Not Available		
Ingredient	Original IDLH	Revised IDLH
lauryldimethylamine oxide	Not Available	Not Available

MATERIAL DATA

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the can be highly effective in protecting workers and will typically be independent of worker interaction. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the rine Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away fir strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute a design of a ventilation system must match the particular process and chemical or contaminant in 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, w essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed stor the workplace possess varying "escape" velocities which, in turn, determine the "capture velocitie effectively remove the contaminant.	ns to provide this high level of protection. sk. om the worker and ventilation that n air contaminant if designed properly. The use. ear SAA approved respirator. Correct fit is age areas. Air contaminants generated in
	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)

aesosis, bries for puring operation, iteration contained filling, low speed operation (as a product speed operation) 0.2 http://doi.org/10.1000/000000000000000000000000000000				100 1/11111)
Image: space				
Image: product parameter basing purposed in the parameter dusts breaked at the instant who is to compare the parameter dusts breaked at the instant who is to compare the parameter dusts breaked at the instant of the parameter dusts breaked at the parameter		direct spray, spray painting in shallow booths, drum filling, o		1-2.5 m/s (200-
Image:		grinding, abrasive blasting, tumbling, high speed wheel ger	nerated dusts (released at high initial velocity into zone	2.5-10 m/s (500-
Image: Control the tange: Control the t		Within each range the appropriate value depends on:		
 			Upper end of the range	
 				
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Image: A set of process with the all velocity bills targetly with distance away from the spening of a single catacity pipe. Velocity generally, build be exceeded on point, build be exceeded to point, build be point, build be exceeded to point, build be point, build be exceeded to point, build be exceeded to point, build be exceeded to point, build be exceeded t		3: Intermittent, low production.	3: High production, heavy use	
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P: Onemical goggles: (ASNZS 1337.1; EN160 or national equivalent] Eye and face protection Contact lenses may pose a specifications on use, should be created for each workplace or task. This should include an erview of lens absorption in the data of charmalism is use and ancomoting the data as does not not the datas of charmalism is use and ancomoting the datas as does not not the datas of charmalism is use and ancomoting the the datas of charmalism is used and ancomoting the datas as does not not be datas of charmalism is used and ancomoting the datas as does not not participate is assored as the first approximate in the datas of charmalism is used and ancomoting the datas as does not not participate is assored as participate is assored as participate is assored as a data marks of the datas of the	measures, such as personal			
Hands/feet protection Wear schemical protecting gloves, a.g., PVC. Wear schemical protecting gloves does not cook depend on the material, but also on turber marks of quality which vary from manufacturer to manufacturer. Where the chemical is a pregnation of devend 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 bas to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygicen is a key element of effective hand care. Gloves must only be worn on clean hands. Metr using gloves, hands should be washed and dired thoroughly. Application of a non-perfumed moisturiser is recommended. - chemical resistance of glove material, - glove thickness and - when only blow controls degraduation, gloves are rated as: - Scelent when treakthrough time < 20 min - So diverse in any application, gloves are rated as: - Scelent when breakthrough time < 20 min - Fair Manusze (down attring diverse should be replaced. - So dow math replaces the any application, gloves are rated as: - Scolent when breakthrough tim	Eye and face protection	 Chemical goggles. [AS/NZS 1337.1, EN166 or national e Contact lenses may pose a special hazard; soft contact lenses may pose a special hazard; soft contact lenses absorption and adsorption for the class of chemicals should be trained in their removal and suitable equipment irrigation immediately and remove contact lens as soon a irritation - lens should be removed in a clean environment 	enses may absorb and concentrate irritants. A written pol hould be created for each workplace or task. This should is in use and an account of injury experience. Medical and it should be readily available. In the event of chemical exp as practicable. Lens should be removed at the first signs of	include a review of first-aid personnel posure, begin eye of eye redness or
Hands/feet protection • Wear safety (ontwear or safety gumboots, e.g. Rubber Hands/feet protection The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and thes therefore to be checked prior to the application. The section of suitable gloves, bands should be usable and did thoroughly. Application of a non-perfund molecularizer is recommended. Suitability and duration of contact, • requency and duration of contact, • dives tistability of glove type is dependent on usage. Important factors in the selection of gloves include: • requency and duration of contact, • glove hitchickess and • dives tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). • When andy piet (prese stated to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). • When only bite (prese stated to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). • Borne glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. • Borne glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. • Contaminated gloves should be replaccd. A soffice of theres 440 mintonon the	Skin protection	See Hand protection below		
Body protection See Other protection below Other protection P.V.C apron. Barrier cream. Skin cleansing cream. 	Hands/feet protection	 Wear safety footwear or safety gumboots, e.g. Rubber The selection of suitable gloves does not only depend on the manufacturer. Where the chemical is a preparation of severa advance and has therefore to be checked prior to the applica. The exact break through time for substances has to be obtain when making a final choice. Personal hygiene is a key element of effective hand care. Glo washed and dried thoroughly. Application of a non-perfumed Suitability and durability of glove type is dependent on usage 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 3 When prolonged or frequently repeated contact may occur, 240 minutes according to EN 374, AS/NZS 2161.10.1 or nation is when prolonged or frequently repeated contact may occur, 240 minutes according to EN 374, AS/NZS 2161.10.1 or nation is come glove polymer types are less affected by movement a use. Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are re is Excellent when breakthrough time > 480 min Good when breakthrough time > 20 min Fair when breakthrough time > 20 min Foor when glove material degrades For general applications, gloves with a thickness typically gre It should be emphasised that glove with a thickness typically gre It should be emphasised that glove with a dependent on the e be based on consideration of the task requirements and know Glove thickness may also vary depending on the glove soft on puncture potential Gloves (up to 0.1 mm or less) may be required wo only likely to give short duration protection and would normal Thinker gloves (down to 0.1 mm or less) may be required wo only likely to give short duration protection and would normal Thinker gloves short on a more) may be required wo on	I substances, the resistance of the glove material can not tion. hed from the manufacturer of the protective gloves and he poves must only be worn on clean hands. After using glove moisturiser is recommended. . Important factors in the selection of gloves include: 374, US F739, AS/NZS 2161.1 or national equivalent). a glove with a protection class of 5 or higher (breakthrou- onal equivalent) is recommended. on class of 3 or higher (breakthrough time greater than 60 hended. and this should be taken into account when considering g rated as: heater than 0.35 mm, are recommended. ily a good predictor of glove resistance to a specific chen xact composition of the glove material. Therefore, glove s wledge of breakthrough times. facturer, the glove type and the glove model. Therefore, s a selection of the most appropriate glove for the task. arying thickness may be required for specific tasks. For ef- there a high degree of manual dexterity is needed. Hower by be just for single use applications, then disposed of. e there is a mechanical (as well as a chemical) risk i.e. wl	the calculated in as to be observed as, hands should be gh time greater than 0 minutes according to loves for long-term hical, as the selection should also the manufacturers example: ver, these gloves are here there is abrasion
Other protection P.V.C apron. Barrier cream. Skin cleansing cream. 	Body protection			
		 Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. 		

Chemwatch: 7941-87

Version No: 2.1

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

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	AK-AUS / Class1 P2	-
up to 50	1000	-	AK-AUS / Class 1 P2
up to 50	5000	Airline *	-
up to 100	5000	-	AK-2 P2
up to 100	10000	-	AK-3 P2
100+			Airline**

* - Continuous Flow ** - Continuous-flow or positive pressure demand

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

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

- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Colourless liquid with characteristic odour; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	1
Odour	Characteristic	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	7	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	~0	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	~100	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	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)	Negligible
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
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	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	
a) Acute Toxicity	Based on available data, the classification criteria are not met.
b) Skin Irritation/Corrosion	Based on available data, the classification criteria are not met.

c) Serious Eye Damage/Irritation	Based on available data, the classification criteria are not met.		
d) Respiratory or Skin sensitisation	Based on available data, the classification criteria are not met.		
e) Mutagenicity	Based on available data, the classification criteria are not met.		
f) Carcinogenicity	Based on available data, the classification criteria are not met.		
g) Reproductivity	Based on available data, the classification criteria are not met.		
h) STOT - Single Exposure	Based on available data, the classification criteria are not met.		
i) STOT - Repeated Exposure	Based on available data, the classification criteria are not met.		
j) Aspiration Hazard	Based on available data, the classification criteria are not met.		
Inhaled		irritation of the respiratory tract (as classified by EC Directives using animal osure be kept to a minimum and that suitable control measures be used in an	
Ingestion	health of the individual, following ingestion, especially where pre harmful or toxic substances are generally based on doses produ	classified under EC Directives), the material may still be damaging to the e-existing organ (e.g liver, kidney) damage is evident. Present definitions of Joing mortality rather than those producing morbidity (disease, ill-health). ting. In an occupational setting however, ingestion of insignificant quantities	
Skin Contact	Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.		
Eye	Although the liquid is not thought to be an irritant (as classified b discomfort characterised by tearing or conjunctival redness (as	by EC Directives), direct contact with the eye may produce transient with windburn).	
Chronic		ronic effects adverse to health (as classified by EC Directives using animal	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
Ardex SG	Dermal (None) LD50: >2000 mg/kg* ^[2]	Not Available	
Ardex SG	Oral (None) LD50: >2000 mg/kg* ^[2]		
	τοχιςιτγ	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye (Rodent - rabbit): 1% - Severe	
lauryldimethylamine oxide	Oral (Rat) LD50: >600 mg/kg ^[1]	Eye: adverse effect observed (irreversible damage) ^[1]	
		Skin (Human): 3.7%/48H - Mild	
		Skin (Rodent - rabbit): 2mg/24H - Severe	
		Skin: adverse effect observed (irritating) ^[1]	
Legend:	1. Value obtained from Europe ECHA Registered Substances - specified data extracted from RTECS - Register of Toxic Effect	Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise of chemical Substances	
LAURYLDIMETHYLAMINE OXIDE	that are 25-35% concentration and most tests were conducted of formulations were tested where the AO was at lesser concentration below for the active ingredient, amine oxide, in mg AO/kg bw for dose studies. Toxicokinetic and metabolism studies indicate AOs are extensive was readily absorbed dermally by rats, mice and rabbits after 24 absorbed <1%. Acute toxicity: In rat oral acute toxicity limit tests, no deaths of 70592-80-2). In multi-dose studies, acute oral LD50 values for r CAS No 61788-90-7), with several other AOs having rat oral LD no deaths occurred at a dose of 520 mg AO/kg bw (CAS No 709 were no deaths observed in a rat acute inhalation study to aeroid a series of studies on rabbits, AOs of varying chain length she were not irritating to the skin or eyes at low concentrations (b) were moderately irritating at 5%, and In a series of studies on rabbits, AOs of varying chain length she were not irritating to the skin or eyes at low concentrations (b) were moderately irritating at 5%, and In one severely irritating at 5%, and In sudies that included rinsing, eye irritation effects diminished seconds of exposure. In Draize rabbit eye irritation tests using - maximum concentration of AO is 10% active in consumer produc consumer incidents established that eye irritation effects of exposure surfactants are moderate, transient and reversible There is no indication of skin sensitisation for the AO category b Repeat dose toxicity . In four repeated-dose studies with rats a 80-2), three dermal studies were designed to assess the effect. Higher doses were tested in a 90-day dietary study with rabbits, changes were observed. In these studies, local dermal irritation was e Genetic toxicity . In five <i>in vitro</i> bacterial (<i>Salmonella</i>) mutagem metabolic activation at concentrations up to 250 ug/plate (higher Three <i>in vivo</i> studies investigated clastogenic effects on a close (methyldodecyl)dimethylamine-N-oxide including: a mouse micro y cogenetics study. These studies were all negative showing no dominant lethal	 (1%), % aqueous solutions). with rinsing after 30 seconds of exposure and were slight with rinsing after 4 30% AO solutions, rabbits experienced severe to moderate irritation. (The cts.) Accidental eye exposure in manufacturing employee incidents and soure during manufacturing and use of products containing AO and other wased on the available animal and human data. and mice exposed to AO via oral and dermal routes (all with CAS No 70592-of repeated exposure on skin at maximum doses of 1.5 mg AO/kg-bw/day. No treatment related clinical chemistry, hematology and histopathological 87 to 150 mg AO/kg bw/day with the highest oral NOAEL below the lowest e oral study included suppressed mean body weight gain, lenticular opacities vident. icity studies, AO shows no evidence of mutagenicity either with or without S9 r concentrations caused cytotoxicity). structural analog of the category, 1- onucleus, a Chinese hamster micronucleus and a Chinese hamster increase in micronuclei or chromosome aberrations. An <i>in vivo</i> mouse Two AOS (CAS No 1643-20-5 and CAS No 3332-27-2) were negative in an <i>in ug/ml.</i> 	

Reproductive and developmental toxicity: No evidence of reproductive toxicity or fertility effects was observed in a study in which rats were given dietary doses of AO in the diet over two generations (CAS No 1643-20-5). No macroscopic or histopathological changes were attributable to treatment with the test substance. The maternal NOAEL from this reproductive study was >40 mg AO/kg bw/day, which was the highest dose tested. At all treatment levels, the rate of bodyweight gain for the F1 and F2 offspring was reduced during the lactation period, however, this reduction was not greater than 10%. This effect appeared to be dose-related, but was not statistically significant until after weaning in the mid and high dose levels. This was not considered an adverse effect since the body weight change only reached statistical significance when the rat pups were getting the majority of their calories from solid food (Developmental NOAEL >40 mg/kg bw/day).

In three developmental toxicity studies via gavage in rats and rabbits (with CAS No 1643-20-5 & 70592-80-2), effects such as decreased foetal weight or delayed ossification, were most often observed only at maternally toxic doses and were associated with the irritation effects of AO on the gastrointestinal tract. No decreases in litter size, no changes in litter parameters, no malformations or significant differences in skeletal defects were observed at oral doses up to 25 mg/kg bw/day in rats (based on decreased foetal weight at 100 mg/kg bw/day) and >160 mg/kg bw/day in rabbits (the highest dose tested).

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

The material may produce severe skin irritation after prolonged or repeated exposure, and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (ervthema) thickening of the epidermis.

Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis. Prolonged contact is unlikely, given the severity of response, but repeated exposures may produce severe ulceration.

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.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
		Legend: 🗙 – Data either no	t available or does not fill the criteria for classification

Data available to make classification

SECTION 12 Ecological information

Toxicity

Ardex SG	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
lauryldimethylamine oxide	EC50	48h	Crustacea	2.9mg/l	2
	EC50	72h	Algae or other aquatic plants	0.015mg/l	2
	EC10(ECx)	72h	Algae or other aquatic plants	0.002mg/l	2
	LC50	96h	Fish	2.4mg/l	2

Harmful to aquatic organisms.

Persistence and degradability

Ingredient	Persistence: Water/Soil Persistence: Air			
lauryldimethylamine oxide	LOW			
Bioaccumulative potential				
Ingredient	Bioaccumulation			
lauryldimethylamine oxide	HIGH (LogKOW = 4.67)			
Mobility in soil				
Ingredient	Mobility			
lauryldimethylamine oxide	LOW (Log KOC = 18660)			

SECTION 13 Disposal considerations

Waste treatment methods		
Product / Packaging disposal	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.	

Chemwatch: 7941-87		Page 8 of 9		Issue Date: 13/03/2025
Version No: 2.1		Ardex SG		Print Date: 13/03/2025
	Recycle wherever possible or co	nsult manufacturer for recyc	ling options.	
	Consult State Land Waste Author	rity for disposal.		
	Bury or incinerate residue at an a	approved site.		
	 Recycle containers if possible, o 	r dispose of in an authorised	l landfill.	

SECTION 14 Transport information

Labels Required Marine Pollutant NO HAZCHEM Not Applicable

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

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

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

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
lauryldimethylamine oxide	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
lauryldimethylamine oxide	Not Available

SECTION 15 Regulatory information

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

lauryldimethylamine oxide is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

Additional Regulatory Information

Not Applicable

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non- Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (lauryldimethylamine oxide)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	All chemical substances in this product have been designated as TSCA Inventory 'Active'
Taiwan - TCSI	Yes
Mexico - INSQ	No (lauryldimethylamine oxide)
Vietnam - NCI	Yes
Russia - FBEPH	Yes
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	13/03/2025
Initial Date	13/03/2025

SDS Version Summary

Version	Date of Update	Sections Updated
2.1	13/03/2025	Toxicological information - Acute Health (eye), Toxicological information - Acute Health (inhaled), Toxicological information - Acute Health (skin), Toxicological information - Acute Health (swallowed), First Aid measures - Advice to Doctor, Physical and chemical properties - Appearance, Toxicological information - Chronic Health, Hazards identification - Classification, Disposal

Version	Date of Update	Sections Updated
		considerations - Disposal, Exposure controls / personal protection - Engineering Control, Ecological Information - Environmental, Firefighting measures - Fire Fighter (extinguishing media), Firefighting measures - Fire Fighter (fire/explosion hazard), Firefighting measures - Fire Fighter (fire fighting), Firefighting measures - Fire Fighter (fire incompatibility), First Aid measures - First Aid (eye), First Aid measures - First Aid (inhaled), First Aid measures - First Aid (skin), First Aid measures - First Aid (swallowed), Handling and storage - Handling Procedure, Stability and reactivity - Instability Condition, Exposure controls / personal protection - Personal Protection (other), Exposure controls / personal protection - Personal Protection (eye), Exposure controls / personal protection - Personal Protection (hands/feet), Accidental release measures - Spills (major), Accidental release measures - Spills (mior), Handling and storage - Storage (storage incompatibility), Handling and storage - Storage (storage requirement), Handling and storage - Storage (suitable container), Identification of the substance / mixture and of the company / undertaking - Supplier Information, Transport information - Transport, Name

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.

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 MARPOL: International Convention for the Prevention of Pollution from Ships
- IMSBC: International Maritime Solid Bulk Cargoes Code
- IGC: International Gas Carrier Code
- IBC: International Bulk Chemical Code
- AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European INventory of Existing Commercial chemical Substances
- ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
 ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- NZIOC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory • FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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