

# Alka 100 Part B

# Alka Coating Pty Ltd.

Chemwatch Hazard Alert Code: 2

Chemwatch: **7955-99** Version No: **2.1** Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements Initial Date: **23/06/2025** Revision Date: **23/06/2025** Print Date: **26/06/2025** S.GHS.AUS.EN.E

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

#### Product Identifier

Product name	Alka 100 Part B
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

Floor Coating, Coating. Use according to manufacturer's directions.

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

Registered company name	Alka Coating Pty Ltd.	
Address	arket St Smithfield NSW 2164 Australia	
Telephone	Not Available	
Fax	Not Available	
Website	Available	
Email	Not Available	

# Emergency telephone number

Association / Organisation	ciation / Organisation CHEMWATCH EMERGENCY RESPONSE (24/7)	
number(s)	+61 1800 951 288 (ID#: 7955-99)	
Other emergency telephone number(s) +61 3 9573 3188		

# **SECTION 2 Hazards identification**

# Classification of the substance or mixture

COMBUSTIBLE LIQUID, regulated for storage purposes only

Poisons Schedule	e Not Applicable			
Classification <sup>[1]</sup>	Flammable Liquids Category 4, Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2A, Sensitisation (Respiratory) Category 1, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Hazardous to the Aquatic Environment Long-Term Hazard Category 4			
Legend: 1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008				

#### Label elements

Hazard pictogram(s)	
Signal word	Danger

# Hazard statement(s)

H227	Combustible liquid.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H336	May cause drowsiness or dizziness.
H413	May cause long lasting harmful effects to aquatic life.
AUH019	May form explosive peroxides.

# Precautionary statement(s) Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P264	Wash all exposed external body areas thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.

# Precautionary statement(s) Response

P304+P340	<b>P304+P340</b> IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P342+P311	P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician/first aider.	
P370+P378	P370+P378 In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.	
P302+P352	P302+P352 IF ON SKIN: Wash with plenty of water and soap.	
P305+P351+P338	51+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.	
P330 Rinse mouth.		

# Precautionary statement(s) Storage

P405	Store locked up.	
P403+P233 Store in a well-ventilated place. Keep container tightly closed.		

# Precautionary statement(s) Disposal

P501

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

No further product hazard information.

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

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
68413-28-5	50-60	cashew nut liquid/ formaldehyde/ ethylenediamine polymer
100-51-6	30-40	benzyl alcohol
107-15-3	1	ethylenediamine
Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Au Classification drawn from C&L * EU IOELVs available		

#### **SECTION 4 First aid measures**

# Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>	
Skin Contact	<ul> <li>If skin or hair contact occurs:</li> <li>Immediately flush body and clothes with large amounts of water, using safety shower if available.</li> <li>Quickly remove all contaminated clothing, including footwear.</li> <li>Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.</li> <li>Transport to hospital, or doctor.</li> </ul>	

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Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>
Ingestion	<ul> <li>IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.</li> <li>For advice, contact a Poisons Information Centre or a doctor.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.</li> <li>If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist.</li> <li>If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.</li> </ul> Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise: <ul> <li>INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. NOTE: Wear a protective glove when inducing vomiting by mechanical means.</li></ul>
	•

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

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination).

For poisons (where specific treatment regime is absent):

#### 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.
- Anticipate seizures.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

#### ADVANCED TREATMENT

- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- 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.

BRONSTEIN, A.C. and CURRANCE, P.L.

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

Treat symptomatically

- Clinical experience of benzyl alcohol poisoning is generally confined to premature neonates in receipt of preserved intravenous salines.
- Metabolic acidosis, bradycardia, skin breakdown, hypotonia, hepatorenal failure, hypotension and cardiovascular collapse are characteristic.
   High urine benzoate and hippuric acid as well as elevated serum benzoic acid levels are found.
- The so-called "gasping syndrome describes the progressive neurological deterioration of poisoned neonates.

Management is essentially supportive.

#### **SECTION 5 Firefighting measures**

#### Extinguishing media

- Foam
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

 Water spray or fog - Large fires only. 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
dvice for firefighters	
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> <li><b>DO NOT</b> approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> <li>Mists containing combustible materials may be explosive.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> </ul>
	Continue

# **SECTION 6 Accidental release measures**

Personal precautions, protective equipment and emergency procedures

See section 8

# **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

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

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

# **SECTION 7 Handling and storage**

Precautions for safe handling	
Safe handling	<ul> <li>DO NOT allow clothing wet with material to stay in contact with skin The substance accumulates peroxides which may become hazardous only if it evaporates or is distilled or otherwise treated to concentrate the peroxides. The substance may concentrate around the container opening for example.</li> <li>Purchases of peroxidisable chemicals should be restricted to ensure that the chemical is used completely before it can become peroxidised.</li> <li>A responsible person should maintain an inventory of peroxidisable chemicals or annotate the general chemical inventory to indicate which chemicals are subject to peroxidation. An expiration date should be determined. The chemical should either be treated to remove peroxides or disposed of before this date.</li> <li>The person or laboratory receiving the chemical should record a receipt date on the bottle. The individual opening the container should add an opening date.</li> <li>Unopened containers received from the supplier should be safe to store for 18 months.</li> <li>Opened containers should not be stored for more than 12 months.</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately.</li> </ul>

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	<ul> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.</li> </ul>
	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> </ul>
	<ul> <li>No smoking, naked lights or ignition sources.</li> </ul>
Other information	<ul> <li>Store in a cool, dry, well-ventilated area.</li> </ul>
	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.

<b>.</b> .		
Suitable container	<ul> <li>Glass container is suitable for laboratory quantities</li> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>	
Storage incompatibility	<ul> <li>Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.</li> <li>Avoid reaction with oxidising agents</li> </ul>	

# SECTION 8 Exposure controls / personal protection

# **Control parameters**

INGREDIENT DATA						
Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	ethylenediamine	Ethylenediamine	10 ppm / 25 mg/m3	Not Available	Not Available	Not Available
Ingredient	Original IDLH			Revised IDLH		
cashew nut liquid/ formaldehyde/ ethylenediamine polymer	Not Available			Not Available		
benzyl alcohol	Not Available			Not Available		
ethylenediamine	1,000 ppm			Not Available		

# Exposure controls

xposure controls			
Appropriate engineering controls	Enclosed local exhaust ventilation is required at points of dua HEPA terminated local exhaust ventilation should be conside Barrier protection or laminar flow cabinets should be conside A fume hood or vented balance enclosure is recommended f When handling quantities up to 500 gram in either a standard preferred. Quantities up to 1 kilogram may require a designa enclosures. Quantities exceeding 1 kilogram should be hand barrier/ containment technology. Manufacturing and pilot plant operations require barrier/ containment technology and direct coupling (totally typically use double or split butterfly valves and hybrid unidit booths). Glove bags, isolator glove box systems are optional Fume-hoods and other open-face containment devices are a Partitions, barriers, and other partial containment technologi non-routine emergencies maximum local and general exhau "escape" velocities which, in turn, determine the "capture velo	ered at point of generation of dust, fumes or vapours. red for laboratory scale handling. or weighing/ transferring quantities exceeding 500 mg d laboratory with general dilution ventilation (e.g. 6-12 ted laboratory using fume hood, biological safety cabi lled in a designated laboratory or containment laborator tainment and direct coupling technologies. enclosed processes that create a barrier between the e ectional airflow/ local exhaust ventilation solutions (e.g. 1. HEPA filtration of exhaust from dry product handling ucceptable when face velocities of at least 1 m/s (200 as are required to prevent migration of the material to st are necessary. Air contaminants generated in the w	air changes per hour) is net, or approved vented ory using appropriate equipment and the room) g. powder containment areas is required. feet/minute) are achieved. uncontrolled areas. For orkplace possess varying
	Type of Contaminant:		Air Speed:
	solvent, vapours, etc. evaporating from tank (in still air)	0.25-0.5 m/s (50-100 f/min.)	
	aerosols, fumes from pouring operations, intermittent conta at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)	
	direct spray, drum filling, conveyer loading, crusher dusts, air motion)	1-2.5 m/s (200-500 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 decreases with the square of distance from the extraction por adjusted, accordingly, after reference to distance from the cc a minimum of 1-2.5 m/s (200-500 f/min.) for extraction of gas considerations, producing performance deficits within the exit by factors of 10 or more when extraction systems are installe. The need for respiratory protection should also be assessed contamination, PAPR, full face air purifying devices with P2 or The following protective devices are recommended where ev 10; high efficiency particulate (HEPA) filters or cartridges 10-25; loose-fitting (Tyvek or helmet type) HEPA powered-aii 25-50; a full face-piece negative pressure respirator with HE 50-100; tight-fitting, full face-piece HEPA PAPR	int (in simple cases). Therefore the air speed at the ex- ntaminating source. The air velocity at the extraction po- traction apparatus, make it essential that theoretical air dor used. where incidental or accidental exposure is anticipated or P3 filters or air supplied respirators should be evalu exposures exceed the recommended exposure control or purifying respirator.	xtraction point should be fan, for example, should be int. Other mechanical ir velocities are multiplied d: Dependent on levels of ated.

50-100; tight-fitting, full face-piece HEPA PAPR

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Hands/Test protection       equipment, to avoid all possible skin contact.         The selection of suitable glows does not only depend on the material, but also on further manufacture is the checked prote to the application of exercised control to esclutibilities in the calculated in the theorem is an stock, being and watch-bands should be removed and destroyed.         The selection of suitable glows does not only depend on the material, but also on further manufacture of the protective glows and has to be observed when a manufacture of the protective glows and has to be observed when a dependent of one observed models and of did throughly. Application of a non-perfurmed modistrater is recommended.         Suitability and durability of glow type is dependent on usage. Important factors in the selection of glows include: Internating a final checker.       - chemical residence of glows include: Internating a final checker.         Beend glows tested to a relevant standard (e.g. Europe EN 374, US F739, ASM25 2161.10 or national equivalent).       - When protocycid or final equivalent) is accommended.         Vision only hef cancel is expected, angle with a protection class of a chipher (treachtrough time greater than 240 minutes according to EN 374, ASM25 2161.10 or national equivalent) is accommended.         Statistical glows should be replaced.       - Second whee breaktrough time > 480 minutes.         Communities according time second in the protection of a solution the glow material. The according glows for long-term tar.         Communities according time > 480 minutes.       - Second whee breaktrough time > 420 minutes.         Communities according time > 480 minutes.       - Secollent ASM		100-1000; a hood-shroud HEPA PAPR or full face-piece supplied air respirator operated in pressure demand or other positive pressure mode.
Epse and tece protection         Eps technology is grade of 2014 it handling or when regulator opposure in an occupational setting occurs.           Epse and tece protection         The information opposure in an occupation of price.           Strain Elevane may prior a second handling or when regulator opposure in an occupation of price.         The information opposure in an occupation of price protection. Moreover, the information opposure in an occur of price protection.           Strain Elevane may prior a second handling or when regulator in the information opposure in an occur of price protection. Moreover, the information opposure in an occur of price protection. Moreover, the information opposure in an occur of price protection. Moreover, the information opposure in an occur of price protection.           Strin protection         See Intran protection below.           Image: Strain Elevane may prior a second handling on the information opposure in an occur of price protection. How Strain Protection of advantation on a prior and information opposure in an occur of price protection opposure in a occur of the information opposure informa	neasures, such as personal	
Hands/feet protection       NOTE:         Hands/feet protection       See Other protects with the protect backs of the protect backs. The protect backs of the protece backs of the protect backs of the protec	Eye and face protection	<ul> <li>For laboratory, larger scale or bulk handling or where regular exposure in an occupational setting occurs:</li> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]</li> <li>Face shield. Full face shield may be required for supplementary but never for primary protection of eyes.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current</li> </ul>
Hands/feet protect       • The material may produe skin sensitiation in predisposed individuals. Care must be taken, when removing gloves and other protect         • Contaminated leafter items, such as shoes, beits and watch-bands should be removed and destroyd.       • Contaminated leafter items, such as shoes, beits and watch-bands should be removed and destroyd.         • Bedenion of subtacting gloves des not only depend on the medical, but allow on charmer marks of quality which vary from manufacturer it manufacturer. When the chemical is a programma to several subtactions, the testistance of the protective gloves and has to be observed when making a final choice.         • Beach Test School (1) gloves the in dependent on subset. Fund care. Cloves must only be worn on chem hands. After using gloves, hands should be washed and dried throughly. Application of a non-perfumed motisturis is recommended.         • Subsidiary and statistical (1) glove type in dependent on usage. Fundational the subset on d gloves include:         • experise yradiance on or or an experime motistical (1) gloves pin dependent on usage. Fundational water is a commended.         • experise yradiance on the cloves that statistical (1) gloves pin dependent on usage. Fundational equivalent).         • When protecting door the pendet cloves and mats be addiance on the considering doves the national equivalent).         • experise yradiance on the should be subset.       • So right for the pendet on the should be taken into account when considering doves for long-test mats.         • dotter in the ASTM F-730-96 in material.       • So right for the subset material equivalent is incontromated.         • Contraminated glo	Skin protection	See Hand protection below
Body protection       See Other protection below         Other protection       For quantities up to 500 grams a laboratory coat may be suitable.         For quantities up to 1 kilogram a disposable laboratory coat or coverall of low permeability is recommended. Coveralls should be buttoned at collar and cuffs.         For quantities over 1 kilogram and manufacturing operations, wear disposable coverall of low permeability and disposable shoe coverall of the provision of advanced respiratory protection.         Eye wash unit.       Ensure there is ready access to an emergency shower.         For Emergencies: Vinyl suit	Hands/feet protection	<ul> <li>The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.</li> <li>Contaminated leather items, such as shoes, bells and watch-bands should be removed and destroyed.</li> <li>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.</li> <li>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be obtained in a non-perfumed moisturiser is recommended.</li> <li>Buitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:         <ul> <li>inequency and duration of contact,</li> <li>intensioned of glove type is dependent on usage. Important factors in the selection of gloves include:             <ul> <li>intensioned 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, ASI/X52 2161.10 or national equivalent).</li> <li>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, ASI/X52 2161.10 or national equivalent) is recommended.</li> </ul> </li> <li>Some glove splower types are less affected by movement and this should be taken into account when considering gloves for long-term use.</li> <li>Contaminated gloves should be replaced.</li> <li>Some glove should be replaced.</li> <li>So of when breakthrough time &gt; 20 min</li> <li>For when glove material degrades</li> <li>For when gloves material legera</li></ul></li></ul>
Other protection <ul> <li>For quantities up to 500 grams a laboratory coat may be suitable.</li> <li>For quantities up to 1 kilogram a disposable laboratory coat or coverall of low permeability is recommended. Coveralls should be buttoned at collar and cuffs.</li> <li>For quantities over 1 kilogram and manufacturing operations, wear disposable coverall of low permeability and disposable shoe cover for manufacturing operations, air-supplied full body suits may be required for the provision of advanced respiratory protection.</li> <li>Eye wash unit.</li> <li>Ensure there is ready access to an emergency shower.</li> <li>For Emergencies: Vinyl suit</li> </ul>	Pody protoctic	
		<ul> <li>For quantities up to 500 grams a laboratory coat may be suitable.</li> <li>For quantities up to 1 kilogram a disposable laboratory coat or coverall of low permeability is recommended. Coveralls should be buttoned at collar and cuffs.</li> <li>For quantities over 1 kilogram and manufacturing operations, wear disposable coverall of low permeability and disposable shoe covers</li> <li>For quantities over 1 kilogram and manufacturing operations, wear disposable coverall of low permeability and disposable shoe covers</li> <li>For quantities over 1 kilogram and manufacturing operations, wear disposable coverall of low permeability and disposable shoe covers</li> <li>For manufacturing operations, air-supplied full body suits may be required for the provision of advanced respiratory protection.</li> <li>Eye wash unit.</li> <li>Ensure there is ready access to an emergency shower.</li> </ul>
	ecommended material(s)	Respiratory protection

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index". The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection: Alka 100 Part B

CPI

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

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

BUTYL	А
NEOPRENE	С
PE	С
PVC	С
SARANEX-23	С
TEFLON	С
VITON	С

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	AK-AUS P2	-	AK-PAPR-AUS / Class 1 P2
up to 50 x ES	-	AK-AUS / Class 1 P2	-
up to 100 x ES	-	AK-2 P2	AK-PAPR-2 P2 ^

^ - Full-face

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 = (1 + 1)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

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# **SECTION 9** Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance Yellowish liquid with a slight amine like odour; does not mix with water.

	1	, ,	
Physical state	Liquid	Relative density (Water = 1)	0.97-0.99 @25C
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	10.5	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	>205.7	Viscosity (cSt)	1500-2500 (BH model CPS/25?)
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	>70 (CC)	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Combustible.	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)	0.373 @24C	Gas group	Not Available
Solubility in water	Immiscible	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	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

#### **SECTION 11 Toxicological information**

Information on toxicological effects		
a) Acute Toxicity	There is sufficient evidence to classify this material as acutely toxic.	
b) Skin Irritation/Corrosion	There is sufficient evidence to classify this material as skin corrosive or irritating.	

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c) Serious Eye	There is sufficient evidence to classify this material as eye	damaging or irritating	
Damage/Irritation d) Respiratory or Skin	There is sufficient evidence to classify this material as sensitising to skin or the respiratory system		
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 r		
h) STOT - Single Exposure			
i) STOT - Repeated Exposure			
j) Aspiration Hazard	Based on available data, the classification criteria are not r		
Inhaled	Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation of epoxy resin amine hardeners (including polyamines and amine adducts) may produce bronchospasm and coughing episodes lasting several days after cessation of the exposure. Even faint traces of these vapours may trigger an intense reaction in individuals showing "amine asthma". Inhalation of benzyl alcohol may affect breathing (causing depression and paralysis of breathing and lower blood pressure.		
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Ingestion of amine epoxy-curing agents (hardeners) may cause severe abdominal pain, nausea, vomiting or diarrhoea. The vomitus may contain blood and mucous. Swallowing large doses of benzyl alcohol may cause abdominal pain, nausea, vomiting and diarrhea. It may affect behaviour and/or the central nervous system, and cause headache, sleepiness, excitement, dizziness, inco-ordination, coma, convulsions and other symptoms of central nervous system depression. In newborns, exposure to excessive amounts of benzyl alcohol has been associated with toxicity (low blood pressure and metabolic acidosis), and an increased incidence of severe jaundice leading to nervous system symptoms called kernicterus. Rarely, death may occur. Benzyl alcohol in medications is present in much smaller amounts than in flush solutions. The amount of benzyl alcohol sufficient to cause toxicity is unknown. If the patient requires more than the recommended dose or other medications containing this preservative, the prescribing doctor must consider the daily metabolic load of benzyl alcohol from these combined sources.		
Skin Contact	The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering. Amine epoxy-curing agents (hardeners) may produce primary skin irritation and sensitisation dermatitis in predisposed individuals. Cutaneous reactions include erythema, intolerable itching and severe facial swelling. Open cuts, abraded or irritated skin should not be exposed to this material 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. Skin contact with the material may be harmful; systemic effects may result following absorption.		
Eye	Vapours of volatile amines irritate the eyes, causing excessive secretion of tears, inflammation of the conjunctiva and slight swelling of the cornea, resulting in "halos" around lights. This effect is temporary, lasting only for a few hours. However this condition can reduce the efficiency of undertaking skilled tasks, such as driving a car. Direct eye contact with liquid volatile amines may produce eye damage, permanent for the lighter species. There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain.		
Chronic	Inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Reactions to benzoic acid have been reported. It may worsen asthma, skin rash or skin disease (angio-oedema). Effect may be worse if exposed persons are also taking aspirin tablets. Prolonged or repeated exposure to benzyl alcohol may cause allergic contact dermatitis (skin inflammation). Prolonged or repeated swallowing may affect behaviour and the central nervous system with symptoms similar to acute swallowing. It may also affect the liver, kidneys, cardiovascular system, the lungs and cause weight loss. Studies in animals have shown evidence of causing birth defects, but the significance of this information in humans is unknown. Benzyl alcohol has not been shown to cause cancer. Inhalation of epoxy resin amine hardeners (including polyamines and amine adducts) may produce bronchospasm and coughing episodes lasting several days after cessation of the exposure. Even faint traces of these vapours may trigger an intense reaction in individuals showing "amine asthma".		
	τοχιςιτγ	IRRITATION	
Alka 100 Part B	Not Available	Not Available	
cashew nut liquid/ formaldehyde/	ΤΟΧΙΟΙΤΥ	IRRITATION	
ethylenediamine polymer	Oral (Rat) LD50: 1080 mg/kg <sup>[2]</sup>	Not Available	
	TOXICITY		
	Dermal (rabbit) LD50: 2000 mg/kg <sup>[2]</sup>	Eye (Rodent - rat): 0.1mL	
	Inhalation (Rat) LC50: >4.178 mg/L4h <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>	
benzyl alcohol	Oral (Rat) LD50: 1230 mg/kg <sup>[2]</sup>	Skin (Human - man): 16mg/48H - Mild	
benzyi alconol		Skin (Human): 1%/2D	
		Skin (Mammal - pig): 100% - Moderate	
		Skin (Rodent - rabbit): 100mg/24H - Moderate	
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
ethylenediamine			
cityicileulaliille	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Dermal (rabbit) LD50: 750 mg/kg <sup>[2]</sup>	Eye (Rodent - rabbit): 750ug - Severe	
	Inhalation (Mouse) LC50: 0.3 mg/L4h <sup>[2]</sup>	Eye (Rodent - rabbit): 750ug/24H - Severe	

	Oral (Guinea) LD50; 470 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>	
		Skin (Rodent - rabbit): 10mg/24H - Severe	
		Skin (Rodent - rabbit): 450mg - Moderate	
		Skin: adverse effect observed (corrosive) <sup>[1]</sup>	
		Skin: adverse effect observed (corrosive).	
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwis specified data extracted from RTECS - Register of Toxic Effect of chemical Substances		
CASHEW NUT LIQUID/ FORMALDEHYDE/ ETHYLENEDIAMINE POLYMER	No significant acute toxicological data identified in literature search. For cashew nutshell liquid (test substance Cardolite NX 4708 – distilled cashew nut shell liquid) No female sex hormone-like effects was observed at all concentrations tested. The substance was found not to cause mutations. Injection into the skin caused moderate to severe redness and peeling.		
BENZYL ALCOHOL	Cardolite NC-700 produced a sensitization rate of 70% and was classified as a strong sensitizer.		
	eczema is a disease involving many factors, and the clinica not be clear. Underarm: Skin inflammation of the armpits may be caused arms and to other areas of the body. In individuals who con related to the later diagnosis of perfume allergy. Face: An important manifestation of fragrance allergy from can cause eczema around the beard area and the adjacent have an increased risk of allergic to fragrances. Irritant reactions: Some individual fragrance ingredients, su	hand eczema or a complication of irritant or atopic hand eczema. However hand al significance of fragrance contact allergy in severe, chronic hand eczema may d by perfume in deodorants and, if the reaction is severe, it may spread down the sulted a skin specialist, a history of such first-time symptoms was significantly the use of cosmetic products is eczema of the face. In men, after-shave products t part of the neck. Men using wet shaving as opposed to dry have been shown to ch as citral, are known to be irritant. Fragrances may cause a dose-related hamic alcohol and Myroxylon pereirae are known to cause hives, but others,	
	including menthol, vanillin and benzaldehyde have also bee Pigmentary anomalies: Type IV allergy is responsible for "p and neck. Testing showed a number of fragrance ingredient benzyl salicylate, hydroxycitronellal, sandalwood oil, gerani Light reactions: Musk ambrette produced a number of allerg Furocoumarins (psoralens) in some plant-derived fragrance amount of furocoumarins in fragrances. Phototoxic reaction General/respiratory: Fragrances are volatile, and therefore, airway. It is estimated that 2-4% of the adult population is a exposure to fragrances may exacerbate pre-existing asthm association was found between respiratory complaints relat Fragrance allergens act as haptens, low molecular weight o protein. However, not all sensitizing fragrance chemicals ar itself causes little or no sensitization, but is transformed into possible to know whether a particular allergen that is not dii Prohaptens: Compounds that are bioactivated in the skin au prohapten being activated cannot be avoided by outside me	en reported. igmented cosmetic dermatitis", referring to increased pigmentation on the face ts were associated, including jasmine absolute, ylang-ylang oil, cananga oil, ol and geranium oil. gic reactions mediated by light and was later banned from use in Europe. as have caused phototoxic reactions, with redness. There are now limits for the is still occur, but are rare. in addition to skin exposure, a perfume also exposes the eyes and the nose / ffected by respiratory or eye symptoms by such an exposure. It is known that a. Asthma-like symptoms can be provoked by sensory mechanisms. A significant ted to fragrances and contact allergy to fragrance ingredients and hand eczema. chemicals that cause an immune response only when attached to a carrier te directly reactive, but require previous activation. A prehapten is a chemical that to a hapten in the skin (bioactivation), usually via enzyme catalysis. It is not always rectly reacts as a prehapten or a prohapten , or both. In thereby form haptens are referred to prohaptens. The possibility of a easures. Activation processes increase the risk for cross-reactivity between	
	recognized and grouped into chemical classes based on kn of sensitization. QSAR prediction: Prediction of sensitization activity of these pre- and prohaptens. CYP1A2 is a member of the cytochrome P450 super family commonly drugs belonging to classes such as antidepressa CYP1A2 also metabolises a number of procarcinogens (sur 1A2 activity, which explains why smokers require higher do Drugs that inhibit CYP1A2 will predictably increase the plas Drugs such as ciprofloxacin, fluvoxamine, verapamil cimetic	activating and deactivating prohaptens. Skin-sensitizing prohaptens can be lowledge of xenobiotic bioactivation reactions, clinical observations and/or studie e substances is complex, especially for those substances that can act both as r, is one of the best characterized. It is responsible for the metabolism of ants, antipsychotics, mood stabilizers, beta blockers and sedative/hypnotics ch as those in cigarettes). Cigarette smoking may lead to three fold increase in ses of beta blockers than than non-smokers sma concentrations of the medications or decrease in clearance of substrates. dine , caffeine and isoniazid are inhibitors of CYP1A2 enzyme. Vegetables such CYP1A2 enzyme which may leads to increase plasma concentration of	
	cycle, and cell death. Genetic studies in mice and analysis immune consequences due to altering NF-kB activity. The same functions that make NF-kB attractive for develop the NF-kB pathway during development or in adults leads to NF-kB plays a role in multiple homeostatic cellular processe communication between cells, but is also tightly linked with mediating proinflammatory responses, NF-kB may regulate	es including response to stimuli,cell proliferation, and death, regulating other signaling pathways within the cell, such a p38 and JNK. In addition to apoptotic and cell cycle changes induced by cellular stress, DNA damage or 53. Disruption of normal cellular responses by inhibiting NF-kB can have adverse	
	deficiencies in this pathway. Mutations have been discovered development or immunity. Genetic defects have also been of gamma (NEMO), a subunit of the IKK complex, and IkBalph mutation results in an IkBalpha protein that cannot be phos activation and ectodermal dysplasia with immunodeficiency defects including impaired innate immunity, impaired antiboo immune defects and susceptibilities in patients with genetic pharmacologic NF-kB inhibitors	in adult humans comes from observation of naturally occurring genetic ed in humans in signaling molecules upstream of NF-kB resulting in defects in discovered in genes that immediately affect NF-kB activation including IKK na.The IKK gamma mutations result in a defective IKK complex and the IkBalphi phorylated and degraded. Both genetic defects result in suppressed NF-kB (In general patients with these genetic defects have multiple immunological dy production, and ultimately severe bacterial infections. Understanding the c defects in the NF-kB pathway will help prepare for potential adverse effects of nance of the immune system is well documented. NF-kB is required for survival	
	gene results in death during fetal development primarily due	ation in adult mice. Removal of the p65 (ReIA) subunit of NF-kB or the IKKbeta e to massive liver apoptosis ve been transplanted into irradiated hosts revealing a specific requirement of NF	

Fetal liver stem cells from p65 or IKKbeta deficient mice have been transplanted into irradiated hosts revealing a specific requirement of NFkB for T-cells, B-cells, and common lymphoid progenitor development but not for myeloid cells or stem cells. The failure to produce

# Alka 100 Part B

	Jymphocytes is madiated through hypersensitivity to TNF due to lack of NF-KB activity. Lymphocyte depletion with chemical or genetic inhibition of NF-KB have implications for therapeutic potential use in humans. The double-sided nature of NF-KB inhibition is clear in this instance where chemical inhibition in vivo mimics genetic experiments inducing rapid TNF-dependent apoptosis. Repaid induction of apoptosis may be an advantage for treating some forms of cancer, but at the same time cause depletion of some lymphocyte populations. In addition to controlling lymphocyte development, NF-KB plays a major role in both adaptive and innate immunity. Various signaling pathways resoluting to comprise activate NF-KB through phosphorylation of CARMA1 by PKC theta and PKC beta respectively, resulting in recruitment and activation of IKK and utilimately expression of genes that control cellular activation, and survival. In addition, NF-KB plays a role in T-cell response to costimulatory signalis. Cells respont to pathogenic microbega and respond by activating signaling pathways including NF-KB leading to expression of anti-microbial effector molecules, as well as molecules that help in development of the adaptive immune response. Inhibition of NF-KB during TLR stimulation can lead to macrophage apoptosis, a mechanism used by some pathogens to help evade immune response. NF-KB is clearly required for normal mature B-cell and T-cell maintenance and function, including regulatory, memory, and natural killerike T cells. The NF-KB anthway are susceptible to parasitic and bacterial infection. The role of NF-KB activation in tymphocytes results in defects in growth, survival, and cytokine production and blocks multiple steps in germinal center formation. Given the diverse roles NF-KB plays in ord of reactive oxygen species (ROS) in the absence on normal NF-KB activation. It mymolytes are surgerial infection. The role of NF-KB activation. It mymolytes are organical infection. The role of NF-KB activation. It mymolytes are organical
ETHYLENEDIAMINE	Acute toxicity of ethylenediamine (LD50, rat, oral range from 637 mg/kg to 1850 mg/kg; LC50, rat, inhalation >29 mg/l and LD50, rabbit, dermal after expiratory sensitiesr in humans and has been reported to cross-sensitize for chemicals of similar structure. In hepeat dose studies, decreased body weight along with decreased water and feed consumption were observed. Every attempt was made to minimise the irritating nature of EDA and reduce the pH by using EDA-2HCL. Hepeatocellular pleomorphism was noted in every study following dietary administration of longer than 13 weeks duration. Gavage administration resulted in effects in the every study following dietary administration of longer than 13 weeks duration. Gavage administration resulted in effects in the every study following dietary administration of longer than 13 weeks duration. Gavage administration resulted in effects in the every study following dietary administration of longer than 13 weeks duration. Gavage administration resulted in the chronic dietary feeding study. Ethylenediamine was rapidly excreted with most of the material eliminated in the urine within 24 hours. Ethylenediamine has produced weakly positive results, 2-3 times greater than control values, in several Ames tests, which may or may not be related to an impurity. Subsequent studies conducted with purer material were negative. All other tests including several in vitro assays (CHO gene mutation, sister chromatid exchange with OHO cells and UDS witro primery at hepatocytes) and a rat dominant lethal assay were negative. The weight of evidence from both in vitor and in vito tests, indicates that ethylenediamine is unlikely to be genotoxic. In chronic bioassays via two routes and exposure there was no carcinogenic effect. In developmental toxicity studies, growth retardation was noted at maternally toxic levels. However, there was no ediractore of developmental toxicity at maternally toxic doses when compared with a pair-fed control. There was no effect on reproductive parame
BENZYL ALCOHOL & ETHYLENEDIAMINE	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as utricaria or Quincke's oedema. The pathogenesis of

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# Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance

which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into

	contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested.		
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	✓	Reproductivity	×
Serious Eye Damage/Irritation	¥	STOT - Single Exposure	*
Respiratory or Skin sensitisation	¥	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
		<b>.</b>	t available or does not fill the criteria for classification to make classification

# **SECTION 12 Ecological information**

Alka 100 Part B	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
cashew nut liquid/	Endpoint	Test Duration (hr)	Species	Value	Source
formaldehyde/ ethylenediamine polymer	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	230mg/l	2
	EC50	72h	Algae or other aquatic plants	500mg/l	2
benzyl alcohol	NOEC(ECx)	336h	Fish	5.1mg/l	2
	EC50	96h	Algae or other aquatic plants	76.828mg/l	2
	LC50	96h	Fish	10mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	17mg/l	1
	EC50	72h	Algae or other aquatic plants	645mg/l	1
ethylenediamine	NOEC(ECx)	504h	Crustacea	2mg/l	1
	EC50	96h	Algae or other aquatic plants	61mg/l	1
	LC50	96h	Fish	>11.5mg/l	4
Legend:	Ecotox databas		CHA Registered Substances - Ecotoxicological Inform Aquatic Hazard Assessment Data 6. NITE (Japan) - I		

Toxic to flora.

Toxic to soil organisms. DO NOT discharge into sewer or waterways. May cause long-term adverse effects in the aquatic environment.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
benzyl alcohol	LOW	LOW
ethylenediamine	LOW	LOW

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
benzyl alcohol	LOW (LogKOW = 1.1)
ethylenediamine	LOW (BCF = 0.07)

# Mobility in soil

Ingredient	Mobility
benzyl alcohol	LOW (Log KOC = 15.66)
ethylenediamine	LOW (Log KOC = 24.72)

# **SECTION 13 Disposal considerations**

#### Waste treatment methods

waste treatment methous	
Product / Packaging disposal	Containers may still present a chemical hazard/ danger when empty.
	Return to supplier for reuse/ recycling if possible.
	Otherwise:
	If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the
	same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
	Where possible retain label warnings and SDS and observe all notices pertaining to the product.

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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 or consult manufacturer for recycling options.
Consult State Land Waste Authority for disposal.
Bury or incinerate residue at an approved site.
<ul> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>

# **SECTION 14 Transport information**

# Labels Required

	COMBUSTIBLE LIQUID, regulated for storage purposes only
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
cashew nut liquid/ formaldehyde/ ethylenediamine polymer	Not Available
benzyl alcohol	Not Available
ethylenediamine	Not Available

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

Product name	Ship Type
cashew nut liquid/ formaldehyde/ ethylenediamine polymer	Not Available
benzyl alcohol	Not Available
ethylenediamine	Not Available

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

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

cashew nut liquid/ formaldehyde/ ethylenediamine polymer is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

# benzyl alcohol is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)

# ethylenediamine is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

# Additional Regulatory Information

Not Applicable

# National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non- Industrial Use	Yes	

National Inventory	Status
Canada - DSL	Yes
Canada - NDSL	No (cashew nut liquid/ formaldehyde/ ethylenediamine polymer; benzyl alcohol)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	No (cashew nut liquid/ formaldehyde/ ethylenediamine polymer)
Japan - ENCS	No (cashew nut liquid/ formaldehyde/ ethylenediamine polymer)
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 (cashew nut liquid/ formaldehyde/ ethylenediamine polymer)
Vietnam - NCI	Yes
Russia - FBEPH	No (cashew nut liquid/ formaldehyde/ ethylenediamine polymer)
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	23/06/2025
Initial Date	23/06/2025

#### 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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