# **Altex Coatings Ltd**

Version No: 6.16 Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Issue Date: 21/04/2024 Print Date: 21/04/2024 S.GHS.NZL.EN

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

#### **Product Identifier**

Product name	Carboline Phenoline 353LT Part A	
Synonyms	Not Available	
Proper shipping name	PAINT RELATED MATERIAL (including paint thinning or reducing compound); PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)	
Other means of identification	Not Available	

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

Relevant identified uses	Part A of a two pack industrial coating
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# Details of the manufacturer or supplier of the safety data sheet

Registered company name	Altex Coatings Ltd	
Address	91-111 Oropi Road Tauranga 3112 New Zealand	
Telephone	+64 7 541 1221	
Fax	+64 7 541 1310	
Website	www.altexcoatings.com	
Email	neil.debenham@carboline.co.nz	

# Emergency telephone number

Association / Organisation	NZ POISONS (24hr 7 days)	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	0800 764766	+64 800 700 112
Other emergency telephone numbers	Not Available	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01

# **SECTION 2 Hazards identification**

# Classification of the substance or mixture

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Classified as Dangerous Goods for transport purposes.

Classification <sup>[1]</sup>	Flammable Liquids Category 2, Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2, Carcinogenicity Category 2, Reproductive Toxicity Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 2	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

#### Label elements

Hazard pictogram(s)		
Hazard pictogram(s)	\ <b>€ 9 / \  :  / \  @@/ \  ∃</b> 2 /	

Signa	l word
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Danger

# Hazard statement(s)

H225	Highly flammable liquid and vapour.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H351	Suspected of causing cancer.	

H361	Suspected of damaging fertility or the unborn child.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H411	Toxic to aquatic life with long lasting effects.	
Precautionary statement(s) Prevention		
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P233	Keep container tightly closed.	
P260	Do not breathe mist/vapours/spray.	
P280	Wear protective gloves, protective clothing, eye protection and face protection.	
P240	Ground and bond container and receiving equipment.	
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.	
P242	Use non-sparking tools.	
P243	Take action to prevent static discharges.	
P273	Avoid release to the environment.	
P264	Wash all exposed external body areas thoroughly after handling.	
P272	Contaminated work clothing should not be allowed out of the workplace.	

# Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.		
P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.		
P302+P352	IF ON SKIN: Wash with plenty of water and soap.		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P314	Get medical advice/attention if you feel unwell.		
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.		
P391	Collect spillage.		
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].		

# Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	

# Precautionary statement(s) Disposal

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

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

P501

# Substances

See section below for composition of Mixtures

# Mixtures

CAS No	%[weight]	Name
55492-52-9	20-30	bisphenol F diglycidyl ether copolymer
1330-20-7	1-10	xylene
78-93-3	1-10	methyl ethyl ketone
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 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	<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 contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>

Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>	
Indication of any immediate medical attention and special treatment needed		

Treat symptomatically.

# **SECTION 5 Firefighting measures**

# Extinguishing media

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

# Special hazards arising from the substrate or mixture

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

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Consider evacuation (or protect in place).</li> <li>Fight fire from a safe distance, with adequate cover.</li> <li>If safe, switch off electrical equipment until vapour fire hazard removed.</li> <li>Use water delivered as a fine spray to control the fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> <li>Do not approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Liquid and vapour are highly flammable.</li> <li>Severe fire hazard when exposed to heat, flame and/or oxidisers.</li> <li>Vapour may travel a considerable distance to source of ignition.</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>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>aldehydes</li> <li>other pyrolysis products typical of burning organic material.</li> </ul>

# **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>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 small quantities with vermiculite or other absorbent material.</li> <li>Wipe up.</li> <li>Collect residues in a flammable waste container.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Consider evacuation (or protect in place).</li> <li>No smoking, naked lights or ignition sources.</li> <li>Increase ventilation.</li> <li>Stop leak if safe to do so.</li> <li>Water spray or fog may be used to disperse /absorb vapour.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Use only spark-free shovels and explosion proof equipment.</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

recautions for safe handling Safe handling	<ul> <li>Containers, even those that have been emptied, may contain explosive vapours.</li> <li>Do NOT cut, drill, grind, weld or perform similar operations on or near containers.</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 smoking, naked lights, heat or ignition sources.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Vapour may ignite on pumping or pouring due to static electricity.</li> <li>DO NOT use plastic buckets.</li> <li>Earth and secure metal containers when dispensing or pouring product.</li> <li>Use spark-free tools when handling.</li> <li>Avoid contact with incompatible materials.</li> <li>Keep containers securely sealed.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.</li> </ul>
Other information	<ul> <li>Store in original containers in approved flame-proof area.</li> <li>No smoking, naked lights, heat or ignition sources.</li> <li>DO NOT store in pits, depression, basement or areas where vapours may be trapped.</li> <li>Keep containers securely sealed.</li> <li>Store away from incompatible materials in a cool, dry well ventilated area.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this MSDS.</li> </ul>

# Conditions for safe storage, including any incompatibilities

<ul> <li>Packing as supplied by manufacturer.</li> <li>Plastic containers may only be used if approved for flammable liquid.</li> <li>Check that containers are clearly labelled and free from leaks.</li> <li>Manufactured product that requires stirring before use and having a viscosity of at least 20 cSt (25 deg. C): (i) Removable head packaging; (ii) Cans with friction closures and (iii) low pressure tubes and cartridges may be used.</li> </ul>					
trides, alkali metals, and sulfides. nent. at room temperature), these reactions generate heat. it tend toward detonation by rather mild shock.					
2					



X — Must not be stored together

**0** — May be stored together with specific preventions

+ — May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

# SECTION 8 Exposure controls / personal protection

#### **Control parameters**

Occupational Exposure Limits (OEL)

# INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	xylene	Dimethylbenzene	50 ppm / 217 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	methyl ethyl ketone	2-Butanone (Methyl ethyl ketone, MEK)	150 ppm / 445 mg/m3	890 mg/m3 / 300 ppm	Not Available	(bio) - Exposure can also be estimated by biological monitoring

#### Exposure controls

	can be highly effective in protecting workers and will typical The basic types of engineering controls are: Process controls which involve changing the way a job act Enclosure and/or isolation of emission source which keeps strategically 'adds' and 'removes' air in the work environme design of a ventilation system must match the particular pr Employers may need to use multiple types of controls to pr For flammable liquids and flammable gases, local exhaust equipment should be explosion-resistant. Air contaminants generated in the workplace possess vary circulating air required to effectively remove the contamina	ivity or process is done to reduce to a selected hazard 'physically' awa ent. Ventilation can remove or dilut ocess and chemical or contaminal revent employee overexposure. ventilation or a process enclosure ing 'escape' velocities which, in tu	he risk. ay from the worker and ventilatic e an air contaminant if designed at in use. ventilation system may be requ	n that properly. The ired. Ventilatior	
	Type of Contaminant:				
	solvent, vapours, degreasing etc., evaporating from tank (in still air).				
	aerosols, fumes from pouring operations, intermittent con plating acid fumes, pickling (released at low velocity into a		ransfers, welding, spray drift,	0.5-1 m/s (100-200 f/min.)	
	direct spray, spray painting in shallow booths, drum filling generation into zone of rapid air motion)	, conveyer loading, crusher dusts,	gas discharge (active	1-2.5 m/s (200-500 f/min.)	
Appropriate engineering controls	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			
	<ul> <li>a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.</li> <li>Adequate ventilation is typically taken to be that which limits the average concentration to no more than 25% of the LEL within the building, room or enclosure containing the dangerous substance.</li> <li>Ventilation for plant and machinery is normally considered adequate if it limits the average concentration of any dangerous substance that might potentially be present to no more than 25% of the LEL. However, an increase up to a maximum 50% LEL can be acceptable where additional safeguards are provided to prevent the formation of a hazardous explosive atmosphere. For example, gas detectors linked to emergency shutdown of the process might be used together with maintaining or increasing the exhaust ventilation on solvent evaporating ovens and gas turbine enclosures.</li> <li>Temporary exhaust ventilation systems may be provided for non-routine higher-risk activities, such as cleaning, repair or maintenance in tanks or other confined spaces or in an emergency after a release. The work procedures for such activities should be carefully considered The atmosphere should be continuously monitored to ensure that ventilation is adequate and the area remains safe. Where workers will enter the space, the ventilation should ensure that the concentration of the dangerous substance does not exceed 10% of the LEL (irrespective of the provision of suitable breathing apparatus)</li> </ul>				
Individual protection measures, such as personal protective equipment					
measures, such as personal	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or national Contact lenses may pose a special hazard; soft contact describing the wearing of lenses or restrictions on use, lens absorption and adsorption for the class of chemic: should be trained in their removal and suitable equipm irrigation immediately and remove contact lens as soor irritation - lens should be removed in a clean environm Intelligence Bulletin 59].</li> </ul>	ct lenses may absorb and concenti , should be created for each workp als in use and an account of injury ent should be readily available. In n as practicable. Lens should be re	lace or task. This should include experience. Medical and first-ai the event of chemical exposure emoved at the first signs of eye i	e a review of d personnel , begin eye redness or	
measures, such as personal protective equipment	<ul> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or national</li> <li>Contact lenses may pose a special hazard; soft contact describing the wearing of lenses or restrictions on use, lens absorption and adsorption for the class of chemics should be trained in their removal and suitable equipm irrigation immediately and remove contact lens as soon irritation - lens should be removed in a clean environm</li> </ul>	ct lenses may absorb and concenti , should be created for each workp als in use and an account of injury ent should be readily available. In n as practicable. Lens should be re	lace or task. This should include experience. Medical and first-ai the event of chemical exposure emoved at the first signs of eye i	e a review of d personnel , begin eye redness or	

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: • frequency and duration of contact, • chemical resistance of glove material,

	<ul> <li>When prolonged or frequently repeated contact m 240 minutes according to EN 374, AS/NZS 2161.10.</li> <li>When only brief contact is expected, a glove with a EN 374, AS/NZS 2161.10.1 or national equivalent) i. Some glove polymer types are less affected by mouse.</li> <li>Contaminated gloves should be replaced.</li> <li>As defined in ASTM F-739-96 in any application, glo</li> <li>Excellent when breakthrough time &gt; 480 min</li> <li>Good when breakthrough time &lt; 20 min</li> <li>Fair when breakthrough time &lt; 20 min</li> <li>For general applications, gloves with a thickness type the should be emphasised that glove will be dependent be based on consideration of the task requirements Glove thickness may also vary depending on the glitechnical data should always be taken into account Note: Depending on the activity being conducted, g</li> <li>Thinner gloves (up to 3 mm or more) may be required or puncture potential</li> <li>Gloves must only be worn on clean hands. After usi moisturiser is recommended.</li> <li>When handling liquid-grade epoxy resins wear chera The performance, based on breakthrough time s 200 min</li> <li>Ethyl Vinyl Alcohol (EVAL laminate) is generally esited in ASTM F-739-96</li> <li>Excellent breakthrough time &gt; 20 min</li> <li>Foor should be ranges from excellent to fair.</li> <li>Neoprene from excellent to fair</li> <li>Polyvinyl (PVC) from excellent to poor As defined in ASTM F-739-96</li> <li>Excellent breakthrough time &gt; 20 min</li> <li>Fair breakthrough time &gt; 20 min</li> <li>Fair breakthrough time &gt; 20 min</li> <li>Fair breakthrough time &gt; 20 min</li> <li>Foor should be tested against each resin system any hardener, individually and collectively</li> <li>DO NOT use barrier creams containing emulsified reviewed prior to use.</li> <li>Replacement time should be considered when sele</li> </ul>	a protection class of 3 or higher (breakthrough time greater than 60 minutes according to is recommended. avement and this should be taken into account when considering gloves for long-term aves are rated as: pically greater than 0.35 mm, are recommended. necessarily a good predictor of glove resistance to a specific chemical, as the t on the exact composition of the glove material. Therefore, glove selection should also and knowledge of breakthrough times. ove manufacturer, the glove type and the glove model. Therefore, the manufacturers to ensure selection of the most appropriate glove for the task. Ioves of varying thickness may be required for specific tasks. For example: equired where a high degree of manual dexterity is needed. However, these gloves are Id normally be just for single use applications, then disposed of. ired where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion ing gloves, hands should be washed and dried thoroughly. Application of a non-perfumed mically protective gloves , boots and aprons. : cellent prior to making a selection of the most suitable type. Systems include both the resin and concentrate the resin), natural rubber (latex), medical or polyethylene gloves (which I fats and oils as these may absorb the resin; silicone-based barrier creams should be cting the most appropriate glove. It may be more effective to select a glove with lower
Body protection	See Other protection below	y than to select a more resistant glove which is reused many times
Other protection	<ul> <li>Overalls.</li> <li>PVC Apron.</li> <li>PVC protective suit may be required if exposure</li> <li>Eyewash unit.</li> <li>Ensure there is ready access to a safety showe</li> <li>Some plastic personal protective equipment (Pl electricity.</li> <li>For large scale or continuous use wear tight-wee</li> <li>Non sparking safety or conductive footwear shot a conductive compound chemically bound to th dissipate static electricity from the body to redu between 0 to 500,000 ohms. Conductive shoes</li> </ul>	
Recommended material(s) GLOVE SELECTION INDEX Glove selection is based on a moo Forsberg Clothing Performance	•	Respiratory protection Type AB-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent) Where the concentration of gas/carticulates in the bracthing zero, expressione of
	ance(s) are taken into account in the <b>computer-</b>	Where the concentration of gas/particulates in the breathing zone, approaches or

The effect(s) of the following substance(s) are taken into account in the  $\ensuremath{\textit{computer-}}$ *generated* selection: Carboline Phenoline 353LT Part A

Material	CPI
BUTYL	С
BUTYL/NEOPRENE	С
IYPALON	С
IAT+NEOPR+NITRILE	С
IATURAL RUBBER	С
ATURAL+NEOPRENE	С
IEOPRENE	С
IEOPRENE/NATURAL	С
IITRILE	С

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.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 5 x ES	AB-AUS / Class 1 P2	-	AB-PAPR-AUS / Class 1 P2
up to 25 x ES	Air-line*	AB-2 P2	AB-PAPR-2 P2
up to 50 x ES	-	AB-3 P2	-
50+ x ES	-	Air-line**	-

^ - Full-face

 $\label{eq:All classes} A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur$ dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO =

NITRILE+PVC	С
PE	С
PE/EVAL/PE	С
PVA	С
PVC	С
PVDC/PE/PVDC	С
SARANEX-23	С
TEFLON	С
VITON	С
VITON/NEOPRENE	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.

#### Ansell Glove Selection

Glove — In order of recommendation
AlphaTec 02-100
AlphaTec® 15-554
AlphaTec® 38-612
AlphaTec® 53-001
AlphaTec® 58-005
MICROFLEX® MidKnight® XTRA 93-862
BioClean™ Emerald BENS
BioClean™ Extra BLAS
BioClean™ Fusion (Sterile) S-BFAP
BioClean™ N-Plus BNPS

The suggested gloves for use should be confirmed with the glove supplier.

# **SECTION 9 Physical and chemical properties**

#### Information on basic physical and chemical properties

Appearance	coloured viscous liquid		
Physical state	Liquid	Relative density (Water = 1)	1.92
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	487
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	78	Molecular weight (g/mol)	Not Available
Flash point (°C)	11	Taste	Not Available
Evaporation rate	2.5 BuAC = 1	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	10.1	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	0.9	Volatile Component (%vol)	12
Vapour pressure (kPa)	3.72	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	3.21	VOC g/L	233.21

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 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

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.
Ingestion	At sufficiently high doses the material may be hepatotoxic (i.e. poisonous to the liver). At sufficiently high doses the material may be nephrotoxic (i.e. poisonous to the kidney). The material has <b>NOT</b> been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.
Skin Contact	The material may accentuate any pre-existing dermatitis condition 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. 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. 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.
Eye	This material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Moderate inflammation may be expected with redness; conjunctivitis may occur with prolonged exposure.
Chronic	Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Harmful: danger of serious damage to health by prolonged exposure through inhalation. This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects. Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility. Based on experience with animal studies, exposure to the material may result in toxic effects to the development of the foetus, at levels which do not cause significant toxic effects to the mother.

Carboline Phenoline 353LT	ΤΟΧΙΟΙΤΥ		IRRITATION	
Part A	Not Available		Not Available	
	TOXICITY	IRRITATIC	N	
bisphenol F diglycidyl ether copolymer	dermal (rat) LD50: >400 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>		
	Oral (Rat) LD50: >5000 mg/kg <sup>[2]</sup>	Skin: adve	erse effect observed (irritating) <sup>[1]</sup>	
	ΤΟΧΙΟΙΤΥ	IF	RRITATION	
	Dermal (rabbit) LD50: >1700 mg/kg <sup>[2]</sup>		Eye (human): 200 ppm irritant	
	Inhalation (Rat) LC50: 5000 ppm4h <sup>[2]</sup>	E	ye (rabbit): 5 mg/24h SEVERE	
xylene	Oral (Mouse) LD50; 2119 mg/kg <sup>[2]</sup>		Eye (rabbit): 87 mg mild	
		Eye: adverse effect observed (irritating)		
		S	kin (rabbit):500 mg/24h moderate	
		s	kin: adverse effect observed (irritating) <sup>[1]</sup>	
mathul athul batana				
methyl ethyl ketone	ΤΟΧΙΟΙΤΥ		IRRITATION	
	Dermal (rabbit) LD50: 6480 mg/kg <sup>[2]</sup>		Eye (human): 350 ppm -irritant	

	Inhalation(Mouse) LC50; 32 mg/L4h <sup>[2]</sup>	Eye (rabbit): 80 mg - irritant	
	Oral (Rat) LD50: 2054 mg/kg <sup>[1]</sup>	Skin (rabbit): 402 mg/24 hr - mild	
		Skin (rabbit):13.78mg/24 hr open - mild	
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances		

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

Legend:

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

# **SECTION 12 Ecological information**

Carboline Phenoline 353LT	Endpoint	Test Duration (hr)	Species	Value	Sour	ce
Part A	Not Available	Not Available	Not Available	Not Available	Not A	vailable
isphenol F diglycidyl ether	Endpoint	Test Duration (hr)	Species	Value	Sour	ce
copolymer	Not Available	Not Available	Not Available	Not Available	Not A	vailable
	Endpoint	Test Duration (hr)	Species		Value	Source
	LC50	96h	Fish		2.6mg/l	2
xylene	EC50	72h	Algae or other aquatic plants		4.6mg/l	2
	EC50	48h	Crustacea		1.8mg/l	2
	NOEC(ECx)	73h	Algae or other aquatic pl	ants	0.44mg/l	2
	Endpoint	Test Duration (hr)	Species		Value	Source
	NOEC(ECx)	48h	Crustacea		68mg/l	2
method athod leatene	EC50	72h	Algae or other aquatic pla	ants	1220mg/l	2
methyl ethyl ketone	EC50	96h	Algae or other aquatic pla	ants	>500mg/L	4
	EC50	48h	Crustacea		308mg/l	2
	LC50	96h	Fish		>324mg/L	4
Legend:	Extracted from 1	UCLID Tovicity Data 2 Europa	ECHA Registered Substances - I	Ecotovicological Inform	nation Aquatia	Forvioity 1 115

Toxic to aquatic life with long lasting effects. May cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

DO NOT discharge into sewer or waterways.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
methyl ethyl ketone	LOW (Half-life = 14 days)	LOW (Half-life = 26.75 days)

# **Bioaccumulative potential**

Ingredient	Bioaccumulation
xylene	MEDIUM (BCF = 740)
methyl ethyl ketone	LOW (LogKOW = 0.29)
methyl ethyl ketone	LOW (LogKOW = 0.29)

# Mobility in soil

Ingredient	Mobility
methyl ethyl ketone	MEDIUM (Log KOC = 3.827)

# **SECTION 13 Disposal considerations**

Waste treatment methods	
Product / Packaging disposal	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> <li>Otherwise:</li> <li>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.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> <li>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.</li> <li>A Hierarchy of Controls seems to be common - the user should investigate: <ul> <li>Recycling</li> <li>Disposal (if all else fails)</li> </ul> </li> <li>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.</li> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sever may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li>Recycle wherever possible.</li> <li>Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.</li> <li>Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (s</li></ul>

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

#### **Disposal Requirements**

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous.

DO NOT deposit the hazardous substance into or onto a landfill or a sewage facility.

Burning the hazardous substance must happen under controlled conditions with no person or place exposed to

(1) a blast overpressure of more than 9 kPa; or

(2) an unsafe level of heat radiation.

The disposed hazardous substance must not come into contact with class 1 or 5 substances.

# **SECTION 14 Transport information**

# Labels Required Image: Warine Pollutant

HAZCHEM •3YE

Land transport (UN)

14.1. UN number or ID number	1263		
14.2. UN proper shipping name		PAINT RELATED MATERIAL (including paint thinning or reducing compound); PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)	
14.3. Transport hazard class(es)	Class Subsidiary Hazard	3 Not Applicable	
14.4. Packing group	П		
14.5. Environmental hazard	Environmentally hazar	dous	
14.6. Special precautions for user	Special provisions Limited quantity	163; 367 5 L	

14.1. UN number	1263			
14.2. UN proper shipping name	Paint related material (including paint thinning or reducing compounds); Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)			
	ICAO/IATA Class	3		
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable		
01035(03)	ERG Code	3L		
14.4. Packing group	II			
14.5. Environmental hazard	Environmentally hazardous			
	Special provisions		A3 A72 A192	
	Cargo Only Packing Instructions		364	
14.6. Special precautions for user	Cargo Only Maximum Qty / Pack		60 L	
	Passenger and Cargo Packing Instructions		353	
	Passenger and Cargo Maximum Qty / Pack		5 L	
	Passenger and Cargo Limited Quantity Packing Instructions		Y341	
	Passenger and Cargo Limited Ma	aximum Qty / Pack	1 L	

# Sea transport (IMDG-Code / GGVSee)

14.1. UN number	1263		
14.2. UN proper shipping name	PAINT RELATED MATERIAL (including paint thinning or reducing compound); PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)		
14.3. Transport hazard	IMDG Class	3	
class(es)	IMDG Subsidiary Ha	Not Applicable	
14.4. Packing group	Ш		
14.5 Environmental hazard	Marine Pollutant		
	EMS Number	E , S-E	
14.6. Special precautions for user	Special provisions	3 367	
	Limited Quantities	L	

# 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

# **SECTION 15 Regulatory information**

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

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard	
HSR002669	Surface Coatings and Colourants Flammable Carcinogenic Group Standard 2020	

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

# Additional Regulatory Information

Not Applicable

#### Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantity (Closed Containers)	Quantity (Open Containers)
Flammable Liquid Category 2	100 L in containers more than 5 L	50 L
Flammable Liquid Category 2	250 L in containers up to and including 5 L	50 L

# **Certified Handler**

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance Quar	antities
Not Applicable Not A	t Applicable

Refer Group Standards for further information

# Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Liquid (L)	Maximum quantity per package for each classification
Skin Sensitisation Category 1	1	
Flammable Liquid Category 2		1L

#### **Tracking Requirements**

Not Applicable

#### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non- Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (bisphenol F diglycidyl ether copolymer; xylene; methyl ethyl ketone)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
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	21/04/2024
Initial Date	19/12/2013

# **SDS Version Summary**

Version	Date of Update	Sections Updated
5.16	21/04/2024	Hazards identification - Classification, Composition / information on ingredients - Ingredients

#### 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 ValueLOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- AIIC: Australian Inventory of Industrial Chemicals
- 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
   TCSA: 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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# Altex Coatings Ltd

Version No: 3.5 Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017 Chemwatch Hazard Alert Code: 4

Issue Date: **21/04/2024** Print Date: **21/04/2024** S.GHS.NZL.EN

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

#### **Product Identifier**

Product name	arboline Phenoline 353LT Part B		
Synonyms	Not Available		
Proper shipping name	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE (including paint thinning or reducing compound); PAINT, FLAMMABLE, CORROSIVE (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)		
Other means of identification	Not Available		

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

Relevant identified uses	Part B of a two pack industrial epoxy tank lining		
Details of the manufacturer or supplier of the safety data sheet			
Designational commence Allow Continue Ltd			

Registered company name	Altex Coatings Ltd	
Address	1-111 Oropi Road Tauranga 3112 New Zealand	
Telephone	+64 7 541 1221	
Fax	+64 7 541 1310	
Website	www.altexcoatings.com	
Email	neil.debenham@carboline.co.nz	

# Emergency telephone number

Association / Organisation	NZ POISONS (24hr 7 days)	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	0800 764766	+64 800 700 112
Other emergency telephone numbers	Not Available	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01

# **SECTION 2 Hazards identification**

# Classification of the substance or mixture

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Classified as Dangerous Goods for transport purposes.

purposes.		
Classification <sup>[1]</sup>	Flammable Liquids Category 3, Corrosive to Metals Category 1, Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 1C, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity (Inhalation) Category 4, Sensitisation (Respiratory) Category 1, Carcinogenicity Category 2, Reproductive Toxicity Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 3	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	
Label elements		
Hazard pictogram(s)		
Signal word	Danger	
Hazard statement(s)		
H226	Flammable liquid and vapour.	
H290	May be corrosive to metals.	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H317	May cause an allergic skin reaction.	

H332	Harmful if inhaled.	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
H351	Suspected of causing cancer.	
H361	Suspected of damaging fertility or the unborn child.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H412	Harmful to aquatic life with long lasting effects.	
Precautionary statement(s) Prevention		
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P233	Keep container tightly closed.	
P260	Do not breathe mist/vapours/spray.	
P264	Wash all exposed external body areas thoroughly after handling.	
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.	
P234	Keep only in original packaging.	
P240	Ground and bond container and receiving equipment.	
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.	
P242	Use non-sparking tools.	
P243	Take action to prevent static discharges.	
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

P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If more than 15 mins from Doctor, INDUCE VOMITING (if conscious).	
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P308+P313	IF exposed or concerned: Get medical advice/ attention.	
P310	Immediately call a POISON CENTER/doctor/physician/first aider.	
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician/first aider.	
P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.	
P302+P352	IF ON SKIN: Wash with plenty of water and soap.	
P363	Wash contaminated clothing before reuse.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P390	Absorb spillage to prevent material damage.	
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.	

# Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	

# 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
100-51-6	25-50	benzyl alcohol
1477-55-0	10-25	<u>m-xylenediamine</u>
135108-88-2	10-25	formaldehyde/ benzenamine, hydrogenated
108-38-3	<5	<u>m-xylene</u>
100-41-4	<1	ethylbenzene
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 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	<ul> <li>If this product comes in contact with the eyes:</li> <li>Immediately hold eyelids apart and flush the eye continuously with 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>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>Transport to hospital or doctor without delay.</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>	
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> <li>Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema.</li> <li>Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs).</li> <li>As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi-recumbent posture) and must be kept under medical observation even if no symptoms are (yet) manifested.</li> <li>Before any such manifestation, the administration of a spray containing a dexamethasone derivative or beclomethasone derivative may be considered.</li> <li>This must definitely be left to a doctor or person authorised by him/her. (ICSC13719)</li> </ul>	
Ingestion	<ul> <li>For advice, contact a Poisons Information Centre or a doctor at once.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Transport to hospital or doctor without delay.</li> </ul>	

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

Depending on the degree of exposure, periodic medical examination is indicated. The symptoms of lung oedema often do not manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation is therefore essential. Immediate administration of an appropriate spray, by a doctor or a person authorised by him/her should be considered. (ICSC24419/24421

# **SECTION 5 Firefighting measures**

# Extinguishing media

# Special hazards arising from the substrate or mixture

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

Fire Fighting
Fire/Explosion Hazard

#### **SECTION 6 Accidental release measures**

See section 8

# **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

Minor Spills	<ul> <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 small quantities with vermiculite or other absorbent material.</li> <li>Wipe up.</li> <li>Collect residues in a flammable waste container.</li> <li>Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material.</li> <li>Check regularly for spills and leaks.</li> <li>Slippery when spilt.</li> </ul>
Major Spills	Slippery when spilt.

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>Containers, even those that have been emptied, may contain explosive vapours.</li> <li>Do NOT cut, drill, grind, weld or perform similar operations on or near containers.</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of overexposure 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 generation of static electricity.</li> <li>DO NOT use plastic buckets.</li> <li>Earth all lines and equipment.</li> <li>Use spark-free tools when handling.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.</li> </ul>
Other information	<ul> <li>Store in original containers in approved flammable liquid storage area.</li> <li>Store away from incompatible materials in a cool, dry, well-ventilated area.</li> <li>DO NOT store in pits, depressions, basements or areas where vapours may be trapped.</li> <li>No smoking, naked lights, heat or ignition sources.</li> <li>Storage areas should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorised personnel - adequate security must be provided so that unauthorised personnel do not have access.</li> <li>Store according to applicable regulations for flammable materials for storage tanks, containers, piping, buildings, rooms, cabinets, allowable quantities and minimum storage distances.</li> <li>Use non-sparking ventilation systems, approved explosion proof equipment and intrinsically safe electrical systems.</li> <li>Have appropriate extinguishing capability in storage area (e.g. portable fire extinguishers - dry chemical, foam or carbon dioxide) and flammable gas detectors.</li> <li>Keep adsorbents for leaks and spills readily available.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>

# Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Packing as supplied by manufacturer.</li> <li>Plastic containers may only be used if approved for flammable liquid.</li> <li>Check that containers are clearly labelled and free from leaks.</li> <li>For low viscosity materials (i) : Drums and jerry cans must be of the non-removable head type. (ii) : Where a can is to be used as an inner package, the can must have a screwed enclosure.</li> </ul>
Storage incompatibility	<ul> <li>Avoid oxidising agents, acids, acid chlorides, acid anhydrides, chloroformates.</li> <li>Avoid contact with copper, aluminium and their alloys.</li> </ul>

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+

X — Must not be stored together
 0 — May be stored together with specific preventions

0

х

# + — May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

# SECTION 8 Exposure controls / personal protection

# **Control parameters**

Occupational Exposure Limits (OEL)

# INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	m- xylenediamine	m-Xylene a,a'- diamine	Not Available	Not Availa	able 0.1 mg/m3	(skin) - Skin absorption
New Zealand Workplace Exposure Standards (WES)	m-xylene	Xylene (o-, m-, p- isomers)	50 ppm / 217 mg/m3	Not Availa	able Not Available	oto - Ototoxin (bio) - Exposure can also be estimated by biological monitoring
New Zealand Workplace Exposure Standards (WES)	ethylbenzene	Ethyl benzene	20 ppm / 88 mg/m3	176 mg/m 40 ppm	n3 / Not Available	(skin) - Skin absorption oto - Ototoxin
Ingredient	TEEL-1		TEEL-2			TEEL-3
In an adda at						
Ingredient	Original IDLH				Revised IDLH	
Ingredient	0	posure Band Rating				osure Band Limit

# Exposure controls

The basic types of engineering controls are: Process controls which involve changing the way a job act Enclosure and/or isolation of emission source which keeps strategically 'adds' and 'removes' air in the work environme design of a ventilation system must match the particular pr Employers may need to use multiple types of controls to pr For flammable liquids and flammable gases, local exhaust equipment should be explosion-resistant. Air contaminants generated in the workplace possess vary circulating air required to effectively remove the contamina	a selected hazard 'physically' awa nt. Ventilation can remove or dilute ocess and chemical or contaminar event employee overexposure. ventilation or a process enclosure ing 'escape' velocities which, in tur	ay from the worker and ventilatic e an air contaminant if designed it in use. ventilation system may be requ	properly. The ired. Ventilation
Type of Contaminant:			Air Speed:
solvent, vapours, degreasing etc., evaporating from tank (in still air).			
aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)			
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)			1-2.5 m/s (200-500 f/min.)
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 distat decreases with the square of distance from the extraction p adjusted, accordingly, after reference to distance from the a minimum of 1-2 m/s (200-400 f/min.) for extraction of sol- mechanical considerations, producing performance deficits multiplied by factors of 10 or more when extraction system · Adequate ventilation is typically taken to be that which lim room or enclosure containing the dangerous substance. · Ventilation for plant and machinery is normally considered might potentially be present to no more than 25% of the LE additional safeguards are provided to prevent the formation emergency shutdown of the process might be used togethe ovens and gas turbine enclosures. · Temporary exhaust ventilation systems may be provided tanks or other confined spaces or in an emergency after a The atmosphere should be continuously monitored to ensu	boint (in simple cases). Therefore to contaminating source. The air velo- vents generated in a tank 2 meters is within the extraction apparatus, m is are installed or used. its the average concentration to no d adequate if it limits the average of L. However, an increase up to a m n of a hazardous explosive atmosp er with maintaining or increasing the for non-routine higher-risk activitie: release. The work procedures for si	the air speed at the extraction pricity at the extraction fan, for exa- idistant from the extraction poin nake it essential that theoretical or more than 25% of the LEL with concentration of any dangerous naximum 50% LEL can be accep- there. For example, gas detecto are exhaust ventilation on solven s, such as cleaning, repair or ma- such activities should be careful	bint should be ample, should be t. Other air velocities are hin the building, substance that otable where rs linked to t evaporating aintenance in ly considered.

Individual protection measures, such as personal protective equipment	
Eye and face protection	<ul> <li>Chemical goggles.</li> <li>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 Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety fortwear or safety gumboots, e.g. Rubber</li> <li>When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.</li> <li><b>TOTE</b> <ul> <li>In material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective glowent, to avoid all possible skin contact.</li> <li>Contaminated leather thems, such as shores, belts and watch-bands should be removed and destroyed.</li> </ul> </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, hands should be washed and dried thoroughly, Application of a ono-perfume motistures is recommended.</li> <li>Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: <ul> <li>Irequery and duration of contact,</li> <li>chemical resistance of glove material,</li> <li>glove thickness and</li> </ul> </li> <li>Wen protection of soluties exact the application of the application class of 3 or higher (breakthrough time greater than 240 minutes according to EN 374, ASINZS 2161.10 or national equivalent).</li> <li>When proteoped or frequently repeated contact may occur, allow with a protection class of 5 or higher (breakthrough time greater than 60 minutes according to EN 374, ASINZS 2161.10 or national equivalent).</li> <li>When proteabtrough time s 20 min</li> <li>Some glove polymer types are less alfected by movement and this should be taken into account when considering gloves for long-tem tag.</li> <li>Sotem ther horeakthrough time s 480 min</li> <li< td=""></li<></ul>
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>PVC Apron.</li> <li>PVC protective suit may be required if exposure severe.</li> <li>Eyewash unit.</li> <li>Ensure there is ready access to a safety shower.</li> <li>Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.</li> <li>For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets).</li> <li>Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot an shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds. Electrical resistance must range between 0 to 500,000 ohms. Conductive should be stored in lockers close to the room in which they are worn. Personnel who have been issued conductive footwear should not wear them from their place of work to their homes and return.</li> </ul>

Glove selection is based on a modified presentation of the: Forsberg Clothing Performance Index'.

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

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

Carboline Phenoline 353LT Part B

Material	СРІ
VITON	A
BUTYL	С
PVA	С
TEFLON	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.

#### Ansell Glove Selection

Glove — In order of recommendation
AlphaTec® 15-554
AlphaTec® 58-530B
AlphaTec® 58-530W
AlphaTec® Solvex® 37-185
AlphaTec® 58-008
AlphaTec® 58-735
AlphaTec® 79-700
AlphaTec® 38-612
AlphaTec® 53-001
AlphaTec® 58-005

The suggested gloves for use should be confirmed with the glove supplier.

# **SECTION 9** Physical and chemical properties

#### Information on basic physical and chemical properties

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.

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 = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 deaC)

- 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

Appearance	light yellow liquid		
Physical state	Liquid	Relative density (Water = 1)	1.08
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	80	Molecular weight (g/mol)	Not Available
Flash point (°C)	32	Taste	Not Available
Evaporation rate	< 1 Ether = 1	Explosive properties	Not Available
Flammability	Flammable.	Oxidising properties	Not Available
Upper Explosive Limit (%)	13	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	1	Volatile Component (%vol)	45
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	>1	VOC g/L	611.28
Solubility in water	Immiscible	pH as a solution (1%)	Not Available

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

Inhaled	Inhalation of vapours may cause drowsiness and dizziness. This lack of co-ordination, and vertigo. The compound causes intestinal irritation due to its caustic natu and reduced alertness. High doses may cause eye irritation, exe Death may also result. The above reflect the results of animal te The material has <b>NOT</b> been classified by EC Directives or other of corroborating animal or human evidence. Inhalation of quantities of liquid mist may be extremely hazardou chemical pneumonitis and pulmonary oedema. Inhalation of aerosols (mists, fumes), generated by the material	classification systems as 'harmful by inhalation'. This is because of the lack is, even lethal due to spasm, extreme irritation of larynx and bronchi,	
Ingestion	of corroborating animal or human evidence. Central nervous system (CNS) depression may include general anaesthetic effects, slowed reaction time, slurred speech and m respiratory depression and may be fatal. Accidental ingestion of the material may be harmful; animal exp produce serious damage to the health of the individual. Ingestion of alkaline corrosives may produce burns around the r	Ind gastrointestinal tract following ingestion. classification systems as 'harmful by ingestion'. This is because of the lack discomfort, symptoms of giddiness, headache, dizziness, nausea, ay progress to unconsciousness. Serious poisonings may result in eriments indicate that ingestion of less than 150 gram may be fatal or may nouth, ulcerations and swellings of the mucous membranes, profuse saliva hagus and stomach may experience burning pain; vomiting and diarrhoea	
Skin Contact	following entry through wounds, lesions or abrasions. Volatile amine vapours produce irritation and inflammation of the Open cuts, abraded or irritated skin should not be exposed to th Entry into the blood-stream, through, for example, cuts, abrasion skin prior to the use of the material and ensure that any external Skin contact with the material may be harmful; systemic effects	ssified under EC Directives); the material may still produce health damage e skin. Direct contact can cause burns. is material is or lesions, may produce systemic injury with harmful effects. Examine the damage is suitably protected. may result following absorption. moderate inflammation of the skin either following direct contact or after a	
Eye	The material can produce chemical burns to the eye following direct contact. Vapours or mists may be extremely irritating. If applied to the eyes, this material causes severe eye damage.		
Chronic	necrosis (rarely) of the jaw. Bronchial irritation, with cough, and Long-term exposure to respiratory irritants may result in airways There has been concern that this material can cause cancer or Inhaling this product is more likely to cause a sensitisation react Skin contact with the material is more likely to cause a sensitisat Toxic: danger of serious damage to health by prolonged exposu This material can cause serious damage if one is exposed to it f produce severe defects. Ample evidence from experiments exists that there is a suspicio Based on experience with animal studies, exposure to the mate which do not cause significant toxic effects to the mother.	disease, involving difficulty breathing and related whole-body problems. nutations, but there is not enough data to make an assessment. ion in some persons compared to the general population. iion reaction in some persons compared to the general population. re through inhalation, in contact with skin and if swallowed. or long periods. It can be assumed that it contains a substance which can	
Carboline Phenoline 353LT Part B	TOXICITY Not Available	IRRITATION           Not Available	
benzyl alcohol			
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Dermal (rabbit) LD50: 2000 mg/kg <sup>[2]</sup>	Eye (rabbit): 0.75 mg open SEVERE	
	4		

	Inhalation (Rat) LC50: >4.178 mg/L4h <sup>[2]</sup>		Eye: adverse effect observed (irritating) <sup>[1]</sup>	
	Oral (Rat) LD50: 1230 mg/kg <sup>[2]</sup>	Skin (	Skin (man): 16 mg/48h-mild	
		Skin (	(rabbit):10 mg/24h open-mild	
		Skin:	no adverse effect observed (not irritating) <sup>[1]</sup>	
	ΤΟΧΙΟΙΤΥ		IRRITATION	
	Dermal (rabbit) LD50: 2000 mg/kg <sup>[2]</sup>		Eye (rabbit): 0.05 mg/24h SEVERE	
m-xylenediamine	Inhalation (Rat) LC50: 0.8 mg/l4h <sup>[1]</sup>		Skin (rabbit): 0.75 mg/24h SEVERE	
	Oral (Rat) LD50: >200 mg/kg <sup>[1]</sup>			
	ΤΟΧΙΟΙΤΥ	IRF	RITATION	
ormaldehyde/ benzenamine, hydrogenated	Dermal (rabbit) LD50: >1000 mg/kg <sup>[1]</sup>	Ski	Skin: adverse effect observed (corrosive) <sup>[1]</sup>	
nyulogenateu	Oral (Rat) LD50: >50<300 mg/kg <sup>[1]</sup>			
	ΤΟΧΙΟΙΤΥ	IRRITATION		
	Dermal (rabbit) LD50: 14100 mg/kg <sup>[2]</sup> Ey		re (rabbit): 5 mg/24h - SEVERE	
	Inhalation (Rat) LC50: 5922 ppm4h <sup>[1]</sup>		e: adverse effect observed (irritating) <sup>[1]</sup>	
m-xylene	Oral (Rat) LD50: 5000 mg/kg <sup>[2]</sup> S		in (rabbit): 20 mg/24h - mod	
			in (rabbit):0.01 mg/24h(open) SEVERE	
		Sk	in: adverse effect observed (irritating) <sup>[1]</sup>	
	тохісіту	IRRITA	TION	
	Dermal (rabbit) LD50: 17800 mg/kg <sup>[2]</sup>	Eye (rabbit): 500 mg - SEVERE		
ethylbenzene	Inhalation (Rat) LC50: 17.2 mg/l4h <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>		
	Oral (Rat) LD50: 3500 mg/kg <sup>[2]</sup>	Skin (rabbit): 15 mg/24h mild		
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>		
Legend:	1. Value obtained from Europe ECHA Registered S	ubstances - Acute i	toxicity 2. Value obtained from manufacturer's SDS. Unless otherw	

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

Legend:

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

# **SECTION 12 Ecological information**

Carboline Phenoline 353LT	Endpoint	Test Duration (hr)	Species	Value	Sour	се
Part B	Not Available	Not Available	Not Available	Not Available	Not Available	
	Endpoint	Test Duration (hr)	Species		Value	Source
benzyl alcohol	EC50	72h	Algae or other aquatic pla	ants	500mg/l	2
	LC50	96h	Fish		10mg/l	2
	EC50	48h	Crustacea		230mg/l	2
	NOEC(ECx)	336h	Fish		5.1mg/l	2
	EC50	96h	Algae or other aquatic pla	ants	76.828mg/l	2
m-xylenediamine						
,	Endpoint	Test Duration (hr)	Species		Value	Source
	EC50	72h	Algae or other aquatic p	plants	12mg/l	2
	EC50	48h	Crustacea		15.2mg/l	2

	NOEC(ECx)	504h	Crustacea		4.7mg/l	2
	LC50	96h	Fish		75mg/l	2
	BCF	1008h	Fish		<0.3	7
	Endpoint	Test Duration (hr)	Species		Value	Source
	LC50	96h	Fish		63mg/l	2
ormaldehyde/ benzenamine, hydrogenated	EC50	72h	Algae or other aquatic plants		43.94mg/l	2
nyurogenateu	EC50	48h	Crustacea		15.4mg/l	2
	EC10(ECx)	72h	Algae or other aquatic plants		1.2mg/l	2
	Endpoint	Test Duration (hr)	Species Value			Source
	EC50	72h	Algae or other aquatic plants	4.7mg/	/I	2
m-xylene	LC50	96h	Fish	2.6mg/	/I	2
	EC50	48h	Crustacea	1.593-	3.822mg/L	4
	NOEC(ECx)	73h	Algae or other aquatic plants	0.44m	g/l	2
	Endpoint	Test Duration (hr)	Species	Value		Source
	EC50	72h	Algae or other aquatic plants	2.4-9.8	ma/l	4
	LC50	96h	Fish		4.075mg/L	4
ethylbenzene	EC50	48h			•	
	EC50 EC50(ECx)		Crustacea	1.37-4.	0	4
		24h	Algae or other aquatic plants	0.02-93	sorng/L	4
	EC50	96h	Algae or other aquatic plants	1.7-7.6		4

Toxic to aquatic organisms.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites. DO NOT discharge into sewer or waterways.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
benzyl alcohol	LOW	LOW
m-xylenediamine	HIGH	HIGH
m-xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.08 days)
ethylbenzene	HIGH (Half-life = 228 days)	LOW (Half-life = 3.57 days)

# **Bioaccumulative potential**

Ingredient	Bioaccumulation
benzyl alcohol	LOW (LogKOW = 1.1)
m-xylenediamine	LOW (BCF = 2.7)
m-xylene	LOW (BCF = 1.37)
ethylbenzene	LOW (BCF = 79.43)

# Mobility in soil

Ingredient	Mobility
benzyl alcohol	LOW (Log KOC = 15.66)
m-xylenediamine	LOW (Log KOC = 914.6)
m-xylene	LOW (Log KOC = 434)
ethylbenzene	LOW (Log KOC = 517.8)

# **SECTION 13 Disposal considerations**

Waste treatment methods	
Product / Packaging disposal	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> <li>Otherwise:</li> <li>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.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> </ul>

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.
<ul> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> </ul>
It may be necessary to collect all wash water for treatment before disposal.
In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
Where in doubt contact the responsible authority.
Recycle wherever possible.
Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment
or disposal facility can be identified.
• Treat and neutralise at an approved treatment plant. Treatment should involve: Neutralisation with suitable dilute acid followed by: burial
in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus
Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

#### **Disposal Requirements**

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous.

DO NOT deposit the hazardous substance into or onto a landfill or a sewage facility.

Burning the hazardous substance must happen under controlled conditions with no person or place exposed to

(1) a blast overpressure of more than 9 kPa; or

(2) an unsafe level of heat radiation.

The disposed hazardous substance must not come into contact with class 1 or 5 substances.

# **SECTION 14 Transport information**

Marine Pollutant

HAZCHEM

# Labels Required



#### Land transport (UN)

14.1. UN number or ID number	3469		
14.2. UN proper shipping name	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE (including paint thinning or reducing compound); PAINT, FLAMMABLE, CORROSIVE (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)		
14.3. Transport hazard class(es)	Class3Subsidiary Hazard8		
14.4. Packing group	III		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Special provisions163; 223; 367Limited quantity5 L		

#### Air transport (ICAO-IATA / DGR)

14.1. UN number	3469			
14.2. UN proper shipping name	Paint related material, flammable, corrosive (including paint thinning or reducing compound); Paint, flammable, corrosive (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)			t,
14.3. Transport hazard class(es)	ICAO/IATA Class3ICAO / IATA Subsidiary Hazard8ERG Code3C			
14.4. Packing group	III			
14.5. Environmental hazard	Not Applicable			
14.6. Special precautions for user	Special provisions         A3 A72 A192 A803           Cargo Only Packing Instructions         365		A3 A72 A192 A803	
			365	

	Cargo Only Maximum Qty / Pack	60 L
	Passenger and Cargo Packing Instructions	354
	Passenger and Cargo Maximum Qty / Pack	5 L
	Passenger and Cargo Limited Quantity Packing Instructions	Y342
	Passenger and Cargo Limited Maximum Qty / Pack	1 L

# Sea transport (IMDG-Code / GGVSee)

• •	,		
14.1. UN number	3469		
14.2. UN proper shipping name	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE (including paint thinning or reducing compound); PAINT, FLAMMABLE, CORROSIVE (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)		
14.3. Transport hazard class(es)	IMDG Class IMDG Subsidiary Ha	3       zard       8	
14.4. Packing group	III		
14.5 Environmental hazard	Not Applicable		
14.6. Special precautions for user	EMS Number Special provisions Limited Quantities	F-E , S-C 163 223 367 5 L	

# 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

Product name	Group
Product name	Ship Type
ethylbenzene	Not Available

# SECTION 15 Regulatory information

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

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard	
HSR002664	Surface Coatings and Colourants Flammable Corrosive Carcinogenic Group Standard 2020	

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

# Additional Regulatory Information

Not Applicable

#### Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantity (Closed Containers)	Quantity (Open Containers)
Flammable Liquid Category 3	500 L in containers more than 5 L	250 L
Flammable Liquid Category 3	1 500 L in containers up to and including 5 L	250 L

# **Certified Handler**

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

# Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Liquid (L)	Maximum quantity per package for each classification
Respiratory Sensitsiation Category 1 Skin Sensitisation Category 1	1	

Hazard Class	Liquid (L)	Maximum quantity per package for each classification	
Skin Corrosive Category 1C	1		
Flammable Liquid Category 3		10 L	

#### **Tracking Requirements**

Not Applicable

# **National Inventory Status**

National Inventory	Status	
Australia - AIIC / Australia Non- Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (benzyl alcohol; m-xylenediamine; formaldehyde/ benzenamine, hydrogenated; m-xylene; ethylbenzene)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	No (formaldehyde/ benzenamine, hydrogenated)	
Japan - ENCS	(formaldehyde/ benzenamine, hydrogenated)	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (formaldehyde/ benzenamine, hydrogenated)	
Vietnam - NCI	Yes	
Russia - FBEPH	No (formaldehyde/ benzenamine, hydrogenated)	
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	21/04/2024
Initial Date	28/02/2018

#### SDS Version Summary

Version	Date of Update	Sections Updated
2.5	21/04/2024	Hazards identification - Classification

# 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
- 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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end of SDS

# Carboline Phenoline 353LT Part B