Version No: 2.1.1.1

Material Safety Data Sheet according to NOHSC and ADG requirements

Chemwatch Hazard Alert Code: 2

Issue Date: 01/10/2015 Print Date: 06/10/2015 Initial Date: Not Available S.Local.AUS.EN

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### Product Identifier

Product name	3216 2K AV Clearcoat Pack A	
Synonyms	Product Code: 3216-01000	
Proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)	
Other means of identification	Not Available	

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

Relevant identified uses Part A of two component polyurethane clear. Pack A and Pack B must be combined prior to use.

### Details of the supplier of the safety data sheet

Registered company name	REDACTED DUE TO COMMERCIAL SENSITIVITY
Address	
Telephone	
Fax	
Website	
Email	

## Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

### **SECTION 2 HAZARDS IDENTIFICATION**

Classification of the substance or mixture

### HAZARDOUS SUBSTANCE. DANGEROUS GOODS. According to the Criteria of NOHSC, and the ADG Code.

Poisons Schedule	S5	
	R20/21	Harmful by inhalation and in contact with skin.
	R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R66	Repeated exposure may cause skin dryness and cracking.
Risk Phrases <sup>[1]</sup>	R36	Irritating to eyes.
	R67	Vapours may cause drowsiness and dizziness.
	R40(3)	Limited evidence of a carcinogenic effect.
	R10	Flammable.



Indication(s) of danger	Xn		
SAFETY ADVICE			
S02	Keep out of reach of children.		
S13	Keep away from food, drink and animal feeding stuffs.		
S23	Do not breathe gas/fumes/vapour/spray.		
S26	In case of contact with eyes, rinse with plenty of water and contact Doctor or Poisons Information Centre.		
S35	This material and its container must be disposed of in a safe way.		
S36	Wear suitable protective clothing.		
S37	Wear suitable gloves.		
S39	Wear eye/face protection.		
S40	To clean the floor and all objects contaminated by this material, use water and detergent.		
S43	In case of fire use the extinguishing media detailed in section 5 of this SDS.		
S46	If swallowed, seek medical advice immediately and show this container or label.		
S51	Use only in well ventilated areas.		
S53	Avoid exposure - obtain special instructions before use.		
S56	Dispose of this material and its container at hazardous or special waste collection point.		
S64	If swallowed, rinse mouth with water (only if the person is conscious).		
Other hazards			
	May produce discomfort of the respiratory system and skin*.		
	Cumulative effects may result following exposure*.		

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

May be harmful to the foetus/ embryo\*. HARMFUL-May cause lung damage if swallowed.

### Substances

See section below for composition of Mixtures

## Mixtures

CAS No	%[weight]	Name
1330-20-7	<30	xylene
123-86-4	<30	n-butyl acetate
763-69-9	<10	ethyl-3-ethoxypropionate
100-41-4	<5	ethylbenzene
82919-37-7	<1	methyl 1.2.2.6.6-pentamethyl-4-piperidyl sebacate
41556-26-7	<1	bis(1.2.2.6.6-pentamethyl-4-piperidyl)sebacate
	Balance	Ingredients determined not to be hazardous

# 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 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.</li> </ul>
Ingestion	<ul> <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>Seek medical advice.</li> <li>Avoid giving milk or oils.</li> <li>Avoid giving alcohol.</li> <li>If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.</li> </ul>

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

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours. Treat symptomatically.

## **SECTION 5 FIREFIGHTING MEASURES**

Extinguishing media	
	<ul> <li>Alcohol stable foam.</li> <li>Dry chemical powder.</li> <li>BCF (where regulations permit).</li> <li>Carbon dioxide.</li> <li>Water spray or fog - Large fires only.</li> </ul>
Special hazards arising from	the substrate or mixture
Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
dvice for firefighters	
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>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>If safe, switch off electrical equipment until vapour fire hazard removed.</li> </ul>

Fire Fighting	<ul> <li>If safe, switch on electrical equipment unit vapour me nazara removed.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> <li>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 flammable.</li> <li>Moderate fire hazard when exposed to heat or flame.</li> <li>Vapour forms an explosive mixture with air.</li> <li>Moderate explosion hazard when exposed to heat or flame.</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:, carbon dioxide (CO2), carbon monoxide (CO).</li> </ul>

### SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

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>Conlain 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

### Precautions for safe handling

Safe handling	<ul> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> <li>Electrostatic discharge may be generated during pumping - this may result in fire.</li> <li>Ensure electrical continuity by bonding and grounding (earthing) all equipment.</li> <li>Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (&lt;=1 m/sec until fill pipe submerged to twice its diameter, then &lt;= 7 m/sec).</li> <li>Avoid splash filling.</li> </ul>
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	<ul> <li>Do NOT use compressed air for filling discharging or handling operations.</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 smoking, naked lights or ignition sources.</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 scap 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> <li>In addition, for tank storages (where appropriate):</li> <li>Store in grounded, properly designed and approved vessels and away from incompatible materials.</li> <li>For bulk storages, consider use of floating roof on ritrogen blanketed vessels; where venting to atmosphere is possible, equip storage tank vents with flame arrestors; inspect tank vents during winter conditions for vapour/ ice build-up.</li> <li>Store at should be above ground and diked to hold entire contents.</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> <li>For materials with a viscosity of at least 2680 cSt. (23 deg. C)</li> <li>For manufactured product having a viscosity of at least 250 cSt. (23 deg. C)</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> <li>Where combination packages are used, and the inner packages are of glass, there must be sufficient inert cushioning material in contact with inner and outer packages</li> <li>In addition, where inner packagings are glass and contain liquids of packing group I there must be sufficient inert absorbent to absorb any spillage, unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.</li> </ul>
Storage incompatibility	<ul> <li>Avoid strong acids, bases.</li> <li>Avoid reaction with oxidising agents</li> </ul>

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Control parameters**

## OCCUPATIONAL EXPOSURE LIMITS (OEL)

# INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	xylene	Xylene (o-, m-, p- isomers)	350 mg/m3 / 80 ppm	655 mg/m3 / 150 ppm	Not Available	Not Available
Australia Exposure Standards	n-butyl acetate	n-Butyl acetate	713 mg/m3 / 150 ppm	950 mg/m3 / 200 ppm	Not Available	Not Available
Australia Exposure Standards	ethylbenzene	Ethyl benzene	434 mg/m3 / 100 ppm	543 mg/m3 / 125 ppm	Not Available	Not Available

## EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3	
xylene	Xylenes	Not Available	Not Available	Not Available	
n-butyl acetate	Butyl acetate, n-	Not Available	Not Available	Not Available	
ethylbenzene	Ethyl benzene	Not Available	Not Available	Not Available	
Ingredient	Original IDLH		Revised IDLH		
xylene	1,000 ppm		900 ppm		
n-butyl acetate	10,000 ppm		1,700 [LEL] ppm		
ethyl-3-ethoxypropionate	Not Available	Not Available			

ethylbenzene	2,000 ppm	800 [LEL] ppm
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	Not Available	Not Available
bis(1,2,2,6,6-pentamethyl- 4-piperidyl)sebacate	Not Available	Not Available

Exposure controls					
Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and can be highly effective in protecting workers and will typically be independent of worker inter- basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce Enclosure and/or isolation of emission source which keeps a selected hazard "physically" a "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air co- vertilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. For flammable liquids and flammable gases, local exhaust ventilation or a process enclosur equipment should be explosion-resistant. Air contaminants generated in the workplace possess varying "escape" velocities which, in t circulating air required to effectively remove the contaminant. Type of Contaminant: solvent, vapours, degreasing etc., evaporating from tank (in still air). aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer 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 into zone of rapid air motion) Within each range the appropriate value depends on: Lower end of the range 1: Room air currents minimal or favourable to capture 2: Contaminants of low toxicity or of nuisance value only. 3: Intermittent, low production.	ractions to provide this high level of pro the risk. way from the worker and ventilation tha ontaminant if designed properly. The de e ventilation system may be required. V turn, determine the "capture velocities" transfers, welding, spray drift, plating , gas discharge (active generation Upper end of the range 1: Disturbing room air currents 2: Contaminants of high toxicity 3: High production, heavy use	tection. The t strategically sign of a /entilation		
	4: Large hood or large air mass in motion       4: Small hood-local control only         Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the				
Personal protection	extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 c	r more when extraction systems are insta	ied of used.		
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irr lenses or restrictions on use, should be created for each workplace or task. This should include chemicals in use and an account of injury experience. Medical and first-aid personnel should b readily available. In the event of chemical exposure, begin eye irrigation immediately and remo removed at the first signs of eye redness or irritation - lens should be removed in a clean enviro [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]</li> </ul>	e a review of lens absorption and adsorptio e trained in their removal and suitable equ ve contact lens as soon as practicable. Le	on for the class of ipment should be ns should be		
Skin protection	See Hand protection below				
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</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 manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</li> <li>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.</li> <li>Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: <ul> <li>frequency and duration of contact,</li> <li>chemical resistance of glove material,</li> <li>glove thickness and</li> <li>dexterity</li> </ul> </li> <li>Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).</li> <li>When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.</li> <li>When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to E 374, AS/NZS 2161.10.1 or national equivalent) is recommended.</li> <li>Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.</li> <li>Contaminated gloves should be replaced.</li> </ul>		ated in advance erved eater than according to EN ong-term use.		

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 shoes should be stored in lockers close to the room in which they are worn. Personnel who have been issued conductive footwear should not wear them from their place of work to their homes and return.</li> </ul>
Thermal hazards	Not Available

#### **Respiratory protection**

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

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

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

\* - Continuous-flow; \*\* - Continuous-flow or positive pressure

demand ^ - 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 degC)

# SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Colourless viscous liquid with a sweet solvent odour; does not mix with water.		
Physical state	Liquid	Relative density (Water = 1)	0.95-1.00
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	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	97.500
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

## SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	<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 or aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Prolonged exposure may cause headache, nausea and ultimately loss of consciousness.
Ingestion	Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733) The material is not thought to produce adverse health effects following ingestion (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum.
Skin Contact	Skin contact with the material may be harmful; systemic effects may result following absorption. Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. There is some evidence to suggest that 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. 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.
Eye	There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain.
Chronic	There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. There is some evidence from animal testing that exposure to this material may result in toxic effects to the unborn baby. Exposure to the material for prolonged periods may cause physical defects in the developing embryo (teratogenesis). Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes. [PATTYS]

16 2K AV Clearcoat Pack A	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Not Available	Not Available	
	тохісіту	IRRITATION	
	Dermal (rabbit) LD50: >1700 mg/kg <sup>[2]</sup>	Eye (human): 200 ppm irritant	
xylene	Inhalation (rat) LC50: 5000 ppm/4h <sup>[2]</sup>	Eye (rabbit): 5 mg/24h SEVERE	
	Oral (rat) LD50: 4300 mg/kgt <sup>[2]</sup>	Eye (rabbit): 87 mg mild	
		Skin (rabbit):500 mg/24h moderate	
	тохісіту	IRRITATION	
	Dermal (rabbit) LD50: >14080 mg/kg <sup>[1]</sup>	* [PPG]	
n-butyl acetate	Inhalation (rat) LC50: 2000 ppm/4Hg <sup>[2]</sup>	Eye ( human): 300 mg	
·	Inhalation (rat) LC50: 390 ppm/4h <sup>[2]</sup>	Eye (rabbit): 20 mg (open)-SEVERE	
	Oral (rat) LD50: 10736 mg/kg <sup>[1]</sup>	Eye (rabbit): 20 mg/24h - moderate	
		Skin (rabbit): 500 mg/24h-moderate	
	тохісіту	IRRITATION	
ethyl-3-ethoxypropionate	Dermal (rabbit) LD50: 4075.5 mg/kg	Eye (rabbit): 500mg/24h - mild	
enigi e eniexypropienate	Inhalation (rat) LC50: 1250 ppm/4h <sup>[2]</sup>	Skin (rabbit):10 mg/24h open mild	
	Oral (rat) LD50: 5139.5 mg/kg <sup>[1]</sup>		
	тохісіту	IRRITATION	
	Dermal (rabbit) LD50: ca.15432.6 mg/kg	Eye (rabbit): 500 mg - SEVERE	
ethylbenzene	Inhalation (mouse) LC50: 35.5 mg/L/2H	Skin (rabbit): 15 mg/24h mild	
	Inhalation (rat) LC50: 55 mg/L/2H <sup>[2]</sup>		
	Oral (rat) LD50: 3500 mg/kgd <sup>[2]</sup>		
methyl 1,2,2,6,6-	тохісіту	IRRITATION	
pentamethyl-4- piperidyl sebacate	Not Available	Not Available	
bis(1,2,2,6,6-pentamethyl-	тохісіту	IRRITATION	
4-piperidyl)sebacate	Oral (rat) LD50: 3100 mg/kg*] <sup>[2]</sup>	Nil reported *[Ameron]	
Legend:		es - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise	

XYLENE	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. The substance is classified by IARC as Group 3: <b>NOT</b> classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing. Reproductive effector in rats			
N-BUTYL ACETATE	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.			
ETHYL- 3-ETHOXYPROPIONATE	· ·	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. * Union Carbide ** Endura Manufacturing		
ETHYLBENZENE	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Ethylbenzene is readily absorbed when inhaled, swallowed or in contact with the skin. It is distributed throughout the body, and passed out through urine. It may irritate the skin, eyes and may cause hearing loss if exposed to high doses. Long Term exposure may cause damage to the kidney, liver and lungs, including a tendency to cancer formation, according to animal testing. There is no research on its effect on sex organs and unborn babies. <b>NOTE:</b> Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA. <b>WARNING:</b> This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. Liver changes, utheral tract, effects on fertility, foetotoxicity, specific developmental abnormalities (musculoskeletal system) recorded.			
METHYL 1,2,2,6,6- PENTAMETHYL- 4-PIPERIDYL SEBACATE	Contact allergies quickly manifest themselves a involves a cell-mediated (T lymphocytes) immu mediated immune reactions. The significance or and the opportunities for contact with it are equ	Ine reaction of the delayed type. Other allergic sl of the contact allergen is not simply determined b hally important. A weakly sensitising substance w in which few individuals come into contact. From a an 1% of the persons tested.	to this product. incke's oedema. The pathogenesis of contact eczema kin reactions, e.g. contact urticaria, involve antibody- y its sensitisation potential: the distribution of the substance hich is widely distributed can be a more important allerger a clinical point of view, substances are noteworthy if they	
BIS(1,2,2,6,6- PENTAMETHYL- 4-PIPERIDYL)SEBACATE	Contact allergies quickly manifest themselv eczema involves a cell-mediated (T lympho involve antibody-mediated immune reaction the distribution of the substance and the op distributed can be a more important allerge	cytes) immune reaction of the delayed type. In S. The significance of the contact allergen is portunities for contact with it are equally important of the second	ia or Quincke's oedema. The pathogenesis of contact Other allergic skin reactions, e.g. contact urticaria, not simply determined by its sensitisation potential: ortant. A weakly sensitising substance which is widely with which few individuals come into contact. From a	
Acute Toxicity	✓	Carcinogenicity	<b>v</b>	
Skin Irritation/Corrosion	0	Reproductivity	0	
Serious Eye	×	STOT - Single Exposure	*	
Damage/Irritation				
	0	STOT - Repeated Exposure	0	

X – Data available but does not fill the criteria for classification

# SECTION 12 ECOLOGICAL INFORMATION

# Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 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)
n-butyl acetate	LOW	LOW
ethyl-3-ethoxypropionate	LOW	LOW
ethylbenzene	HIGH (Half-life = 228 days)	LOW (Half-life = 3.57 days)

## **Bioaccumulative potential**

Ingredient

Bioaccumulation

### Continued...

xylene	MEDIUM (BCF = 740)
n-butyl acetate	LOW (BCF = 14)
ethyl-3-ethoxypropionate	LOW (LogKOW = 1.0809)
ethylbenzene	LOW (BCF = 79.43)
Mobility in soil	
Ingredient	Mobility

,	
Ingredient	Mobility
n-butyl acetate	LOW (KOC = 20.86)
ethyl-3-ethoxypropionate	LOW (KOC = 10)
ethylbenzene	LOW (KOC = 517.8)

# SECTION 13 DISPOSAL CONSIDERATIONS

### Waste treatment methods

	<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> </ul>
	If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
	Where possible retain label warnings and SDS and observe all notices pertaining to the product.
	DO NOT allow wash water from cleaning or process equipment to enter drains.
Product / Packaging	<ul> <li>It may be necessary to collect all wash water for treatment before disposal.</li> </ul>
disposal	In all cases disposal to sever may be subject to local laws and regulations and these should be considered first.
	<ul> <li>Where in doubt contact the responsible authority.</li> </ul>
	<ul> <li>Recycle wherever possible.</li> </ul>
	<ul> <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> </ul>
	<ul> <li>Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or Incineration in a licenced apparatus (after admixture with suitable combustible material).</li> </ul>
	<ul> <li>Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.</li> </ul>

# **SECTION 14 TRANSPORT INFORMATION**

### Labels Required

	Licon 3
Marine Pollutant	NO
HAZCHEM	•3Y
Land transport (ADG)	
UN number	1263
Packing group	Ш
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Environmental hazard	No relevant data

Transport hazard class(es)	Class 3 Subrisk Not Applicable
Special precautions for user	Special provisions       163 223 *         Limited quantity       5 L

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

UN number	1263	
Packing group	Ш	
UN proper shipping name	Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base); Paint related material (including paint thinning or reducing compounds)	
Environmental hazard	No relevant data	
Transport hazard class(es)	ICAO/IATA Class 3 ICAO / IATA Subrisk Not Applicable ERG Code 3L	
Special precautions for user	Special provisions Cargo Only Packing Instructions	A3 A72 A192 366

111		
	Cargo Only Maximum Qty / Pack	220 L
	Passenger and Cargo Packing Instructions	355
	Passenger and Cargo Maximum Qty / Pack	60 L
	Passenger and Cargo Limited Quantity Packing Instructions	s Y344
	Passenger and Cargo Limited Maximum Qty / Pack	10 L

### Sea transport (IMDG-Code / GGVSee)

UN number	1263	
Packing group	Ш	
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)	
Environmental hazard	Not Applicable	
Transport hazard class(es)	IMDG Class     3       IMDG Subrisk     Not Applicable	
Special precautions for user	EMS Number       F-E , S-E         Special provisions       163 223 955         Limited Quantities       5 L	

# Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

Source	Ingredient	Pollution Category
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	xylene	Υ
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	n-butyl acetate	Υ
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	ethyl-3-ethoxypropionate	Υ
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	ethylbenzene	Y

## **SECTION 15 REGULATORY INFORMATION**

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

XYLENE(1330-20-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Australia Exposure Standards	Australia Inventory of Chemical Substances (AICS)
Australia Hazardous Substances Information System - Consolidated Lists	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs
N-BUTYL ACETATE(123-86-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS	3
Australia Exposure Standards	Australia Inventory of Chemical Substances (AICS)
Australia Hazardous Substances Information System - Consolidated Lists	
ETHYL-3-ETHOXYPROPIONATE(763-69-9) IS FOUND ON THE FOLLOWING REGULA	TORY
LISTS Australia Inventory of Chemical Substances (AICS)	
ETHYLBENZENE(100-41-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Australia Exposure Standards	Australia Inventory of Chemical Substances (AICS)
Australia Hazardous Substances Information System - Consolidated Lists	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE(82919-37-7) IS FOUND	ON THE FOLLOWING REGULATORY
LISTS Australia Inventory of Chemical Substances (AICS)	
BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL)SEBACATE(41556-26-7) IS FOUND ON T	HE FOLLOWING REGULATORY
LISTS Australia Inventory of Chemical Substances (AICS)	

National Inventory	Status
Australia - AICS	Υ
Canada - DSL	Υ
Canada - NDSL	N (xylene; n-butyl acetate; bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate; ethylbenzene; ethyl-3-ethoxypropionate; methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Y

Japan - ENCS	Υ
Korea - KECI	Υ
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Υ
Legend:	Y = All ingredients are on the inventory $N = N$ of determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

# **SECTION 16 OTHER INFORMATION**

## Other information

The (M)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.

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