# RESENE 81A ETCH PRIMER RESENE AUTOMOTIVE & LIGHT INDUSTRIAL

Version No: 1.4.7.9

Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Issue Date: 17/08/2021 Print Date: 17/08/2021 L.GHS.NZL.EN

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

#### **Product Identifier**

Product name	RESENE 81A ETCH PRIMER
Chemical Name	Not Applicable
Synonyms	Not Available
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	10547

# Details of the supplier of the safety data sheet

Registered company name	RESENE AUTOMOTIVE & LIGHT INDUSTRIAL
Address	32-50 Vogel Street Naenae Wellington New Zealand
Telephone	+64 4 5770500
Fax	+64 4 5773327
Website	www.resene.co.nz
Email	advice@resene.co.nz

# Emergency telephone number

Association / Organisation	NZ POISONS (24hr 7 days)	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	0800 764766	+61 2 9186 1132
Other emergency telephone numbers	0800 737636	+64 800 700 112

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

# **SECTION 2 Hazards identification**

#### Classification of the substance or mixture

Classification [1]	Hazardous to the Aquatic Environment Long-Term Hazard Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2, Flammable Liquids Category 2, Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Reproductive Toxicity Category 2, Sensitisation (Skin) Category 1, Germ Cell Mutagenicity 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
Determined by Chemwatch using GHS/HSNO criteria	3.1B, 6.1D (oral), 6.3A, 8.3A, 6.5B (contact), 6.6B, 6.8B, 6.9B, 9.1B

# Label elements

Hazard pictogram(s)









Signal word Danger

#### Hazard statement(s)

nazara statement(s)	
H411	Toxic to aquatic life with long lasting effects.
H373	May cause damage to organs through prolonged or repeated exposure. (Oral, Dermal, Inhalation)
H225	Highly flammable liquid and vapour.
H318	Causes serious eye damage.
H302	Harmful if swallowed.
H315	Causes skin irritation.

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H361	Suspected of damaging fertility or the unborn child.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.

#### Precautionary statement(s) Prevention

· · · · · · · · · · · · · · · · · · ·	
P201	Obtain special instructions before use.
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.
P264	Wash all exposed external body areas thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.

#### Precautionary statement(s) Response

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.
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.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P330	Rinse mouth.

# 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

Ingredients are required by the Hazard Substances (Safety Data Sheets) Notice 2017, EPA consolidation 30 April 2021 to be identified:

# **Mixtures**

CAS No	%[weight]	Name
108-88-3	10-20	toluene
78-93-3	10-20	methyl ethyl ketone
67-64-1	1-10	acetone
71-36-3	1-10	n-butanol
95-63-6	1-10	1,2,4-trimethyl benzene
108-95-2	0.1-1	phenol
Legend:	Classified by Chemwatch; 2. Classification draw     Classification drawn from C&L * EU IOELVs av.	n from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI;

# **SECTION 4 First aid measures**

# Description of first aid measures

If this product comes in contact with the eyes:

**Eye Contact** 

Immediately hold eyelids apart and flush the eye continuously with running water.

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.

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	<ul> <li>Continue flushing 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	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.
Inhalation	<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>If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.</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>Seek medical advice.</li> </ul>

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically

# **SECTION 5 Firefighting measures**

# Extinguishing media

Foam.

# Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
Advice for firefighters	
Fire Fighting	► Alert Fire Brigade and tell them location and nature of hazard.
Fire/Explosion Hazard	Liquid and vapour are highly flammable. Combustion products include: carbon dioxide (CO2) other pyrolysis products typical of burning organic material.

# **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	Remove all ignition sources. Contain spill with inert non- combustible absorbent then place in suitable, labelled container for waste disposal. Wipe up. Clean area with large quantity of water to complete clean- up.
Major Spills	Remove all ignition sources. Clear area of personnel and move upwind. Wear appropriate personnel protective equipment and clothing to prevent exposure. Avoid breathing in mists or vapours and skin or eyes contact. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non- sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authority.

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

# **SECTION 7 Handling and storage**

Precautions for safe handling	
Safe handling	Even with proper grounding and bonding, this material can still accumulate an electrostatic charge.  Containers, even those that have been emptied, may contain explosive vapours.  Contains low boiling substance:  Storage in sealed containers may result in pressure buildup causing violent rupture of containers not rated appropriately.  Electrostatic discharge may be generated during pumping - this may result in fire.  Avoid unnecessary personal contact, including inhalation.  DO NOT allow clothing wet with material to stay in contact with skin
Other information	► Store in original containers in approved flame-proof area.

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#### Conditions for safe storage, including any incompatibilities

Suitable container	▶ Packing as supplied by manufacturer.
Storage incompatibility	reacts violently with strong oxidiser

# **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)	toluene	Toluene (Toluol)	50 ppm / 188 mg/m3	Not Available	Not Available	skin-Skin absorption
New Zealand Workplace Exposure Standards (WES)	methyl ethyl ketone	MEK (Methyl ethyl ketone, 2-Butanone)	150 ppm / 445 mg/m3	890 mg/m3 / 300 ppm	Not Available	bio-Exposure can also be estimated by biological monitoring.
New Zealand Workplace Exposure Standards (WES)	acetone	Acetone	500 ppm / 1185 mg/m3	2375 mg/m3 / 1000 ppm	Not Available	bio-Exposure can also be estimated by biological monitoring.
New Zealand Workplace Exposure Standards (WES)	n-butanol	n-Butyl alcohol	Not Available	Not Available	50 ppm / 150 mg/m3	skin-Skin absorption
New Zealand Workplace Exposure Standards (WES)	phenol	Phenol	5 ppm	Not Available	Not Available	skin-Skin absorption

# **Emergency Limits**

Ingredient	TEEL-1	TEEL-2	TEEL-3
toluene	Not Available	Not Available	Not Available
methyl ethyl ketone	Not Available	Not Available	Not Available
acetone	Not Available	Not Available	Not Available
n-butanol	60 ppm	800 ppm	8000** ppm
1,2,4-trimethyl benzene	140 mg/m3	360 mg/m3	2,200 mg/m3
1,2,4-trimethyl benzene	Not Available	Not Available	480 ppm
phenol	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
toluene	500 ppm	Not Available
methyl ethyl ketone	3,000 ppm	Not Available
acetone	2,500 ppm	Not Available
n-butanol	1,400 ppm	Not Available
1,2,4-trimethyl benzene	Not Available	Not Available
phenol	250 ppm	Not Available

### Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
1,2,4-trimethyl benzene	E	≤ 0.1 ppm	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

# MATERIAL DATA

IFRA Prohibited Fragrance Substance

The International Fragrance Association (IFRA) Standards form the basis for the globally accepted and recognized risk management system for the safe use of fragrance ingredients and are part of the IFRA Code of Practice.

Odour Threshold Value: 3.6 ppm (detection), 699 ppm (recognition)

NOTE: Detector tubes measuring in excess of 40 ppm, are available.

For trimethyl benzene as mixed isomers (of unstated proportions)

Odour Threshold Value: 2.4 ppm (detection)

Use care in interpreting effects as a single isomer or other isomer mix.

Exposed individuals are NOT reasonably expected to be warned, by smell, that the Exposure Standard is being exceeded.

For toluene:

Odour Threshold Value: 0.16-6.7 (detection), 1.9-69 (recognition)

NOTE: Detector tubes measuring in excess of 5 ppm, are available.

For methyl ethyl ketone:

Odour Threshold Value: Variously reported as 2 ppm and 4.8 ppm

Odour threshold: 2 ppm (detection); 5 ppm (recognition) 25 ppm (easy recognition); 300 ppm IRRITATING

Exposures at or below the recommended TLV-TWA are thought to prevent injurious systemic effects and to minimise objections to odour and irritation.

For n-butanol:

Odour Threshold Value: 0.12-3.4 ppm (detection), 1.0-3.5 ppm (recognition)

NOTE: Detector tubes for n-butanol, measuring in excess of 5 ppm are commercially available.

Odour Threshold Value for phenol: 0.060 ppm (detection)

NOTE: Detector tubes for phenol, measuring in excess of 1 ppm, are commercially available.

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#### **Exposure controls**

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.
Personal protection	
Eye and face protection	▶ Safety glasses with side shields.
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>NOTE:</li> <li>The material may produce skin sensitisation in predisposed individuals.</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.</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area.</li> <li>Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal.</li> <li>Overalls.</li> <li>Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.</li> </ul>

#### Respiratory protection

Respiratory protection required in insufficiently ventilated working areas and during spraying. An approved respirator with a replaceable vapour/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to AS/NZS 1715 Standard, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716 Standard, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Type AX Filter of sufficient capacity.

- 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

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

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

<sup>\*\* -</sup> Continuous-flow or positive pressure demand.

A(All classes) = Organic vapours, B AUS or B1 = Acid gases, 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 deg C)

# **SECTION 9 Physical and chemical properties**

# Information on basic physical and chemical properties

Appearance	Yellow dispersion with characteristic odour			
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)	466	
pH (as supplied)	Not Available	Decomposition temperature	Not Available	
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available	
Initial boiling point and boiling range (°C)	56-148	Molecular weight (g/mol)	Not Available	
Flash point (°C)	8	Taste	Not Available	

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Evaporation rate	Not Available BuAC = 1	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	10.3	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	1.7	Volatile Component (%vol)	85
Vapour pressure (kPa)	5.94	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (%)	Not Available
Vapour density (Air = 1)	2.7	VOC g/L	695

#### **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	▶ stable
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

Inhalation of vapours may cause drowsiness and dizziness.

Acute effects from inhalation of high concentrations of vapour are pulmonary irritation, including coughing, with nausea; central nervous system depression - characterised by headache and dizziness, increased reaction time, fatigue and loss of co-ordination Central nervous system (CNS) depression may include nonspecific discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness.

Material is highly volatile and may quickly form a concentrated atmosphere in confined or unventilated areas.

The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Acute exposure of humans to high concentrations of methyl ethyl ketone produces irritation to the eyes, nose, and throat.

Ingestion

Inhaled

At sufficiently high doses the material may be hepatotoxic (i.e. poisonous to the liver).

Central nervous system (CNS) depression may include nonspecific discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness.

Skin Contact

Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period.

The material may accentuate any pre-existing dermatitis condition

Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.

Open cuts, abraded or irritated skin should not be exposed to this material

Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects.

Eye

Chronic

When applied to the eye(s) of animals, the material produces severe ocular lesions which are present twenty-four hours or more after instillation.

Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals.

Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

Serious damage (clear functional disturbance or morphological change which may have toxicological significance) is likely to be caused by repeated or prolonged exposure. There is sufficient evidence to establish a causal relationship between human exposure to the material and impaired fertility

Chronic toluene habituation occurs following intentional abuse (glue sniffing) or from occupational exposure.

Limited information is available on the chronic (long-term) effects of methyl ethyl ketone in humans.

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TOXICITY	IRRITATION
Not Available	Not Available

# toluene

TOXICITY	IRRITATION
Dermal (rabbit) LD50: >5000 mg/kg <sup>[1]</sup>	Eye (rabbit): 2mg/24h - SEVERE
Inhalation(Rat) LC50; 12.5-28.8 mg/l4h <sup>[2]</sup>	Eye (rabbit):0.87 mg - mild
Oral(Rat) LD50; 636 mg/kg <sup>[2]</sup>	Eye (rabbit):100 mg/30sec - mild
	Eye: adverse effect observed (irritating) <sup>[1]</sup>

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Solin (cababit).20 mg ; moderate   Solin cababit).20 mg ; moderate   Solin cababit, moderate   Solin cab		Li	1		I	
Size no odverse effect observed (instancy)   Size no odverse eff						
TOXICITY   BRITATION						
TOXICITY Demost (rabbit) LDSD6400-81000 mg/kg <sup>2/2</sup> Explanation, 200 ppm - imitant Installation (LDSD - 2540 mg/kg <sup>2/2</sup> ) Explanation (RDSD - 2540 mg/kg <sup>2/2</sup>					<u> </u>	
Dormal (stabls) LDSc0400 6900 mg/sg <sup>23</sup>   Eye (human) 300 ppm -intrans			Skin: no	adverse effect observed (n	ot irritating) <sup>[1]</sup>	
Innaletion/Moses) LCS0, 32 mg/s4 <sup>22</sup> Grain(Rato) LDS0, 2044 mg/sg <sup>11</sup> Silvin (rabbit): 407 mg/s24 hr - mind Demmal (rabbit) LDS0, 20 mg/sg <sup>12</sup> Eye (rabbit): 20 mg/s24 hr - minderate Per anherent effect doteovered (retating) <sup>(1)</sup> Silvin (rabbit): 3.56 mg/s24 hr - minderate Silvin (rabbit): 5.50 mg/s14 hr - derivating ( <sup>1)</sup> Silvin (rabbit): 5.50 mg/s14 hr - derivate Silvin (rabbit): 5.50		TOXICITY		IRRITATION		
Introduction/Mouse) LC50, 32 mg/st.4t <sup>27</sup>   Eye (subsit); 80 mg - sintant		Dermal (rabbit) LD50: ~6400-8000 mg/kg <sup>[2]</sup>		Eye (human): 350 pp	om -irritant	
Continued   Libbit	methyl ethyl ketone	Inhalation(Mouse) LC50; 32 mg/L4h <sup>[2]</sup>		Eye (rabbit): 80 mg -	· irritant	
DOXICITY   RRITATION   Eye (nabal): 20mg/sdf/st   Eye (nabal): 20mg/sdf/s		Oral(Rat) LD50; 2054 mg/kg <sup>[1]</sup>	Skin (rabbit): 402 mg	g/24 hr - mild		
Demai (rabbit) LDS0: 20 mg/kg <sup>[2]</sup> Eye (tabbit); 200 mg/kg <sup>1</sup> Inhalaton(Mouse) LDS0; 44 mg/Ldn <sup>[2]</sup> Eye (tabbit); 200 mg/kg <sup>1</sup> - moderate  Crai(Rat) LDS0; 1738 mg/kg <sup>1</sup> ] Eye (tabbit); 20 mg/24h - moderate  Eye: adverse effect doserved (rintaring) <sup>1</sup> ]  Skin (tabbit), 500 mg/24h - mak  Eye: adverse effect observed (rintaring) <sup>1</sup> ]  Eye (tabbit), 2 day (tabbit				Skin (rabbit):13.78m	Skin (rabbit):13.78mg/24 hr open	
Demail (rabbit) LDS0: 20 mg/kg <sup>[2]</sup> Eye (tabbit); 200 mg/kg <sup>1</sup> Irelation(Mouse) LDS0, 44 mg/t.46 <sup>[2]</sup> Eye (tabbit); 200 mg/kg <sup>1</sup> - motorate    Oral(Rot) LDS0, 1738 mg/kg <sup>1</sup> ] Eye (tabbit); 200 mg/kg <sup>1</sup> - motorate    Eye: adverse effect observed (irritaring) <sup>1</sup> ] Skin (tabbit); 500 mg/kg <sup>2</sup> - mid  Eye (tabbit); 240 mg/kg <sup>2</sup> - mid  Eye (tabbi				-		
Inhalation(Nouse) LCSC: 44 mg.Lsh <sup>2</sup> Eye (rabbit); 25 mg·25 SEVERE  Eye. chabit); 3.5 mg·25 Severe effect observed (rot initiating) <sup>(1)</sup> TOXICITY  Demoit (rotbit) LDSC: -1430 mg/kg <sup>(1)</sup> Eye (furnam); 50 ppm - initiant  Inhalation(Rial) LCSC: 5.17.75 mg/klh <sup>2</sup> ]  Eye (rabbit); 25 mg/24h-SEVERE  Eye. adverse effect observed (rotwinbid damage) <sup>(1)</sup> Eye (rabbit); 25 mg/24h-SEVERE  Eye. adverse effect observed (invisiting) <sup>(1)</sup> TOXICITY  Demoit (rotbit) LDSC: -3100 mg/kg <sup>(2)</sup> Eye (rabbit); 25 mg/24h-SEVERE  Eye. adverse effect observed (invisiting) <sup>(1)</sup> Eye (mabit); 25 mg/24h-SEVERE  Eye. adverse effect observed (invisiting) <sup>(1)</sup> Eye (mabit); 25 mg/24h-SEVERE  Eye. adverse effect observed (invisiting) <sup>(1)</sup> Eye (mabit); 25 mg/24h-SEVERE  Eye. adverse effect observed (invisiting) <sup>(1)</sup> Eye (mabit); 25 mg/24h-SEVERE  Eye. adverse effect observed (invisiting) <sup>(1)</sup> Eye (mabit); 25 mg/24h-SEVERE  Demoit (rotbit) LDSC: 2100 mg/kg <sup>(2)</sup> Eye (mabit); 25 mg/24h-SEVERE  Eye. adverse effect observed (invisiting) <sup>(1)</sup> Eye (mabit); 25 mg/24h-SEVERE  Demoit (rotbit) LDSC: 2100 mg/kg <sup>(2)</sup> Eye (mabit); 25 mg/24h-SEVERE  Demoit (rotbit) LDSC: 2100 mg/kg <sup>(2)</sup> Eye (mabit); 25 mg/24h-SEVERE  Eye. adverse effect observed (invisiting) <sup>(1)</sup> Eye (mabit); 25 mg/24h-SEVERE  Demoit (rotbit) LDSC: 2100 mg/kg <sup>(2)</sup> Eye (mabit); 25 mg/24h-SEVERE  Eye. adverse effect observed (invisiting) <sup>(1)</sup> Eye (mabit); 25 mg/24h-SEVERE  Demoit (rotbit) LDSC: 2100 mg/kg <sup>(2)</sup> Eye (mabit); 25 mg/24h-SEVERE  Eye. adverse effect observed (invisiting) <sup>(1)</sup> Eye (mabit); 25 mg/24h-SEVERE  Demoit (rotbit); 25 mg/24h-SEVERE  Eye. adverse effect observed (invisiting) <sup>(1)</sup> Eye (mabit); 25 mg/24h-SEVERE  Eye. adverse effect observed (invisiting) <sup>(1)</sup> Eye (mabit); 25 mg/24h-SEVERE  Eye. adverse effect obse		res				
Cral(Rat) LDS0; 1738 mg/kg <sup>[1]</sup> Eye (vabbit): 3.95 mg - SEVERE  Eye: adverse effect observed (intrinstraig) <sup>[1]</sup> Sikin (rabbit): 305 mg/p24er - mild  Sikin (rabbit): 305 mg/p24er - mild  Sikin (rabbit): 305 mg/p24er - mild  TOXICITY  BRITATION  Demail (rabbit) LD50; -3430 mg/kg <sup>[1]</sup> Inhalation(Rat) LD50; -347.76 mg/left <sup>[2]</sup> Cral(Mouse) LD50; 177.76 mg/left <sup>[2]</sup> Eye (rabbit): 24 mg/24h-SEVERE  Cral(Mouse) LD50; 100 mg/kg <sup>[2]</sup> Eye (rabbit): 24 mg/24h-SEVERE  Eye: adverse effect observed (inverserbibe damage) <sup>[1]</sup> Sikin (rabbit): 455 mg/24h-moderate  Sikin: adverse effect observed (inverserbibe damage) <sup>[1]</sup> TOXICITY  Demail (rabbit) LD50; 3160 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50; 10.2 mg/L4H <sup>[1]</sup> Oral(Rat) LD50; 10.0 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50; 10.2 mg/L4H <sup>[1]</sup> Oral(Rat) LD50; 10.0 mg/kg <sup>[2]</sup> Eye (rabbit): 5 mg - SEVERE   TOXICITY  IRRITATION  IRRITATION  demaid (rat) LD50; 257 mg/kg <sup>[2]</sup> Eye(rabbit): 5 mg - SEVERE   Coral(Mouse) LD50; 270 mg/kg <sup>[2]</sup> Sikin(rabbit): 500 mg open - SEVERE  Alegand:  1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. "Value obtained from manufactures' SDS. Unless otherwise appecified date activated from RTECS - Register of Toxic Effect of chemical Substances  TOLUENE  RESENE 81A ETCH PRIMER  TOLUENE  Acetto Noticity  Inhalation equivalent themselves as content eczema, more rarely as unitication of culmick's codema.  Context allergies guickly manufaction exposure, aromatic hydrocarbones undergo substantated partitioning into adipose tassues.  For roluene:  Acetto Noticity  Humans exposed to intermediate to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from breadures to intermediate to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from breadures to intermediate to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from breadures to intermediate to high levels of toluene						
Eye: adverse effect observed (initiating) <sup>[1]</sup> Sin (acabit): 500 mg/24hr - midd  Skin (acabit): 385mg (apen) - midd  Skin (acabit): 385mg (apen) - midd  Skin (acabit): 385mg (apen) - midd  Skin: no adverse effect observed (not initiating) <sup>[1]</sup> TOXICITY  BRITATION  Demal (rabbit) LD50: -3430 mg/kg <sup>[1]</sup> Eye (rabbit): 1.6 mg/SEVERE  Oral(Mouse) LD50: 100 mg/kg <sup>[2]</sup> Eye (rabbit): 24 mg/24h-SEVERE  Oral(Mouse) LD50: 100 mg/kg <sup>[2]</sup> Skin: adverse effect observed (intrevenible damage) <sup>[1]</sup> Skin: adverse effect observed (intrevenible damage) <sup>[1]</sup> Skin: adverse effect observed (intrevenible damage) <sup>[1]</sup> Inhelation(Rat) LC50: 10.2 mg/Ldh <sup>[1]</sup> Oral(Rat) LD50: 53160 mg/kg <sup>[2]</sup> Inhelation(Rat) LC50: 10.2 mg/Ldh <sup>[1]</sup> Oral(Rat) LD50: 525 mg/kg <sup>[1]</sup> Phenol  Phenol  Phenol  Inhaliation(Mouse) LD50: 0.000 mg/kg <sup>[2]</sup> Eye/(rabbit): 500 mg/SEVERE  Oral(Mouse) LD50: 270 mg/kg <sup>[2]</sup> Skin/(rabbit): 500 mg/SEVERE  Skin/(rabbit): 500 mg/SEVERE  Legend:  1. Valvur obtained from Europe ECHA Registered Substances - Acute toxicity 2: Valvur obtained from manufacturer's SDS. Unless otherwise apecified date extracted from RTECS - Register of Toxic Effect of chemical Substances  RESENE 81A ETCH PRIMER  TOLUENE  The following information refers to contact allergens as a group and may not be specific to this product.  Contact allergies guickly manifest themselves as contact occura, more trary as unitication of chancke's cedema.  Date of contact allergies guickly manifest themselves as contact occura, more trary as unitication of chancke's cedema.  Contact allergies guickly manifest themselves as contact occura, more carry as unitication of chancke's cedema.  Toluene:  Acetone  1. Valvur obtained from Europe ECHA Registered Substances of time experience adverse central nervous system effects ranging from beadones to intermediate to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headones to intermediate to high levels of toluene for short periods of time experience advers						
Skin (rabbit): 500 mg/24hr - mild	acetone	Oral(Rat) LD50; 1738 mg/kg <sup>L1</sup>			[41]	
Skin (rabbit):395mg (open) - mild					3)[1]	
TOXICITY   IRRITATION			,	, ,		
TOXICITY   Eye (rabbit): 24 mg/24h-SEVERE					[4]	
Demai (rabbit) LD50; ~3430 mg/kg <sup>[1]</sup> Eye (numan): 50 ppm - irritant Inhabition(Rat) LC50; >17.76 mg/4h <sup>[2]</sup> Eye (rabbit): 1.6 mg/SEVERE  Oral(Mouse) LD50; 100 mg/kg <sup>[2]</sup> Eye (rabbit): 24 mg/24h-SEVERE  Eye adverse effect observed (irretraible damage) <sup>[1]</sup> Skin (rabbit): 405 mg/24h-moderate  Skin: adverse effect observed (irritating) <sup>[1]</sup> TOXICITY  Dermai (rabbit) LD50: >3160 mg/kg <sup>[2]</sup> Inhabition(Rat) LD50: 505; 10.2 mg/Lat <sup>[1]</sup> Oral(Rat) LD50: 505; 10.2 mg/Lat <sup>[1]</sup> Oral(Rat) LD50: 500 mg/kg <sup>[1]</sup> Fye(rabbit): 100 mg rinse - mild  Inhabition(Mouse) LD50: 0.777 mg/Lat <sup>[2]</sup> Dermai (rat) LD50: 2270 mg/kg <sup>[2]</sup> Skin(rabbit): 500 mg open - SEVERE  Oral(Mouse) LD50: 270 mg/kg <sup>[2]</sup> Skin(rabbit): 400 mg rinse - mild  Inhabition(Mouse) LD50: 270 mg/kg <sup>[2]</sup> Skin(rabbit): 500 mg/24hr - SEVERE  Legend:  1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2: "Value obtained from manufacturer's SDS. Unless otherwise specified date extracted from RTECS - Register of Toxic Effect of chemical Substances on Contact allerges guickly manifest themselves as contact occurs, more rarely as unificating or Quinck's ooders.  TOLUENE  RESENE 81A ETCH PRIMER  Check contact allergies quickly manifest themselves as contact occurs, more rarely as unificating or Quinck's ooders.  Data demonstrate that during inhalation exposure, aromatic hydrocarbons undergo substantial partitioning into adipose tissues.  For totuene:  ACETONE  Neutranol  Or r-butanol  Acetone in Check as validable for CHEMWATCH 12172 1.2.3-trimethylbenzene CHEMWATCH 2325 1.3,5-trimethylbenzene  Other Toxicity data is available for CHEMWATCH 12172 1.2.3-trimethylbenzene CHEMWATCH 2325 1.3,5-trimethylbenzene			Skin: no ad	verse effect observed (not	irritating)[1]	
Demai (rabbit) LD50; ~3430 mg/kg <sup>[1]</sup> Eye (numan): 50 ppm - irritant Inhabition(Rat) LC50; >17.76 mg/4h <sup>[2]</sup> Eye (rabbit): 1.6 mg/SEVERE  Oral(Mouse) LD50; 100 mg/kg <sup>[2]</sup> Eye (rabbit): 24 mg/24h-SEVERE  Eye adverse effect observed (irretraible damage) <sup>[1]</sup> Skin (rabbit): 405 mg/24h-moderate  Skin: adverse effect observed (irritating) <sup>[1]</sup> TOXICITY  Dermai (rabbit) LD50: >3160 mg/kg <sup>[2]</sup> Inhabition(Rat) LD50: 505; 10.2 mg/Lat <sup>[1]</sup> Oral(Rat) LD50: 505; 10.2 mg/Lat <sup>[1]</sup> Oral(Rat) LD50: 500 mg/kg <sup>[1]</sup> Fye(rabbit): 100 mg rinse - mild  Inhabition(Mouse) LD50: 0.777 mg/Lat <sup>[2]</sup> Dermai (rat) LD50: 2270 mg/kg <sup>[2]</sup> Skin(rabbit): 500 mg open - SEVERE  Oral(Mouse) LD50: 270 mg/kg <sup>[2]</sup> Skin(rabbit): 400 mg rinse - mild  Inhabition(Mouse) LD50: 270 mg/kg <sup>[2]</sup> Skin(rabbit): 500 mg/24hr - SEVERE  Legend:  1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2: "Value obtained from manufacturer's SDS. Unless otherwise specified date extracted from RTECS - Register of Toxic Effect of chemical Substances on Contact allerges guickly manifest themselves as contact occurs, more rarely as unificating or Quinck's ooders.  TOLUENE  RESENE 81A ETCH PRIMER  Check contact allergies quickly manifest themselves as contact occurs, more rarely as unificating or Quinck's ooders.  Data demonstrate that during inhalation exposure, aromatic hydrocarbons undergo substantial partitioning into adipose tissues.  For totuene:  ACETONE  Neutranol  Or r-butanol  Acetone in Check as validable for CHEMWATCH 12172 1.2.3-trimethylbenzene CHEMWATCH 2325 1.3,5-trimethylbenzene  Other Toxicity data is available for CHEMWATCH 12172 1.2.3-trimethylbenzene CHEMWATCH 2325 1.3,5-trimethylbenzene		TOXICITY	IRRITATION			
Inhalation(Rat) LC50; >17.76 mg/l4f/2 <sup>1</sup> Eye (rabbit): 1.6 mg-SEVERE  Oral(Mouse) LD50; 100 mg/kg <sup>[2]</sup> Eye (rabbit): 24 mg/24h-SEVERE  Eye: adverse effect observed (irreversible damage) <sup>[1]</sup> Skin (rabbit): 405 mg/24h-moderate  Skin: adverse effect observed (irritating) <sup>[1]</sup> TOXICITY  Dermal (rabbit) LD50; >3160 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50; 10.2 mg/L4fi <sup>[1]</sup> Oral(Rat) LD50; 5160 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50; 10.2 mg/L4fi <sup>[1]</sup> Oral(Rat) LD50; 525 mg/kg <sup>[1]</sup> Inhalation(Nouse) LD50; 270 mg/kg <sup>[2]</sup> Skin(rabbit): 500 mg cpen - SEVERE  Oral(Mouse) LD50; 270 mg/kg <sup>[2]</sup> Skin(rabbit): 500 mg cpen - SEVERE  Oral(Mouse) LD50; 270 mg/kg <sup>[2]</sup> Skin(rabbit): 500 mg cpen - SEVERE  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  TOLUENE  RESENE 81A ETCH PRIMER  ACETONE  N-BUTANOL  ACETONE  N-BUTANOL  1. ALTRIMETHYL BENZENE  Other Toxicity data is available for CHEMWATCH 12172 1.2,3-trimethylbenzene CHEMWATCH 2325 1.3,5-trimethylbenzene  Other Toxicity data is available for CHEMWATCH 12172 1.2,3-trimethylbenzene CHEMWATCH 2325 1.3,5-trimethylbenzene				50 ppm - irritant		
Drait(Mouse) LD50; 100 mg/kg <sup>[2]</sup>   Eye (rabbit): 24 mg/24h-SEVERE   Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>   Skin (rabbit): 405 mg/24h-moderate   Skin: adverse effect observed (irreversible damage) <sup>[1]</sup>						
Eye: adverse effect observed (irreversible damage) <sup>[1]</sup> Skin (rabbil): 405 mg/24h-moderate  Skin: adverse effect observed (irritating) <sup>[1]</sup> TOXICITY  Demai (rabbit): LD50: 3160 mg/kg <sup>[2]</sup> Inhalation(Rat): LC50: 10.2 mg/L4h <sup>[1]</sup> Oral(Rat): LD50: 6000 mg/kg <sup>[1]</sup> Not Available  TOXICITY  IRRITATION  Demai (rabbit): LD50: 6000 mg/kg <sup>[1]</sup> TOXICITY  dermai (rat): LD50: 6000 mg/kg <sup>[1]</sup> Eye(rabbit): 100 mg rinse - mild  Inhalation(Mouse): LC50: 0.177 mg/L4h <sup>[2]</sup> Drai(Mouse): LC50: 270 mg/kg <sup>[2]</sup> Skin(rabbit): 500 mg open - SEVERE  Oral(Mouse): LD50: 270 mg/kg <sup>[2]</sup> Skin(rabbit): 500 mg/24hr - SEVERE  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  RESENE 81 A ETCH PRIMER  The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact exzema, more rarely as urficaria or Quincke's oedema. Data demonstrate that during inhalation exposure, aromatic hydrocarbons undergo substantial partitioning into adipose tissues.  For toluene: Acute Toxicity Humans exposed to intermediate to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis, and death.  Of ra exetome: The acute toxicity of acetone is low.  for acetome: The acute toxicity of acetone is low.  for Acetome: The Jutanol.  1.2,4-TRIMETHYL BENZENE  Other Toxicity data is available for CHEMWATCH 12172 1,2.3-trimethylbenzene CHEMWATCH 2325 1,3,5-trimethylbenzene	n-butanol					
Skin (rabbit): 405 mg/24h-moderate	ii butuiioi				o damago)[1]	
TOXICITY   IRRITATION					e damage). 1	
1.2,4-trimethyl benzene					1]	
Dermal (rabbit) LD50: >3160 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50; 10.2 mg/L4n <sup>[1]</sup> Oral(Rat) LD50; 6000 mg/kg <sup>[1]</sup> TOXICITY IRRITATION  dermal (rat) LD50: 525 mg/kg <sup>[1]</sup> Inhalation(Mouse) LC50; 0.177 mg/L4n <sup>[2]</sup> Eye(rabbit): 100 mg rinse - mild Inhalation(Mouse) LC50; 0.177 mg/L4n <sup>[2]</sup> Eye(rabbit): 500 mg open - SEVERE Oral(Mouse) LD50; 270 mg/kg <sup>[2]</sup> Skin(rabbit): 500 mg open - SEVERE  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  RESENE 81A ETCH PRIMER  The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact ezema, more rarely as urticaria or Quincke's oedema. Data demonstrate that during inhalation exposure, aromatic hydrocarbons undergo substantial partitioning into adipose tissues.  Toluene: Acute Toxicity Humans exposed to intermediate to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis, and death.  ACETONE  N-BUTANOL  N-BUTANOL  Other Toxicity data is available for CHEMWATCH 12172 1,2,3-trimethylbenzene CHEMWATCH 2325 1,3,5-trimethylbenzene			OKIT. daverse	chect observed (initating)-		
Inhalation(Rat) LC50; 10.2 mg/L4h <sup>[1]</sup>   Oral(Rat) LD50; 6000 mg/kg <sup>[1]</sup>		TOXICITY			IRRITATION	
Inhalation(Rat) LC50; 10.2 mg/L4h <sup>[1]</sup> Oral(Rat) LD50; 6000 mg/kg <sup>[1]</sup> IRRITATION  dermal (rat) LD50: 525 mg/kg <sup>[1]</sup> Eye(rabbit): 100 mg rinse - mild  inhalation(Mouse) LC50; 0.177 mg/L4h <sup>[2]</sup> Dral(Mouse) LD50; 270 mg/kg <sup>[2]</sup> Skin(rabbit): 500 mg open -SEVERE  Oral(Mouse) LD50; 270 mg/kg <sup>[2]</sup> Skin(rabbit): 500 mg/24hr - SEVERE  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  The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. Data demonstrate that during inhalation exposure, aromatic hydrocarbons undergo substantial partitioning into adipose tissues.  For toluene: Acute Toxicity Humans exposed to intermediate to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis, and death.  ACETONE  N-BUTANOL  1.2.4-TRIMETHYL BENZENE  Other Toxicity data is available for CHEMWATCH 12172 1.2,3-trimethylbenzene CHEMWATCH 2325 1,3,5-trimethylbenzene		Dermal (rabbit) LD50: >3160 mg/kg <sup>[2]</sup>			Not Available	
phenol	1,2,4-trimethyl benzene	Inhalation(Rat) LC50; 10.2 mg/L4h <sup>[1]</sup>				
dermal (rat) LD50: 525 mg/kg <sup>[1]</sup> [Eye(rabbit): 100 mg rinse - mild  [Inhalation(Mouse) LC50; 0.177 mg/L4h <sup>[2]</sup> [Eye(rabbit): 5 mg - SEVERE  [Oral(Mouse) LD50; 270 mg/kg <sup>[2]</sup> [Skin(rabbit): 500 mg open - SEVERE  [Skin(rabbit): 500 mg/24hr - SEVERE  [Skin(rabbit): 500 mg/24hr - SEVERE  [Authorized at a extracted 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  [Authorized at a extracted from RTECS - Register of Toxic Effect of chemical Substances  [Authorized at a extracted from RTECS - Register of Toxic Effect of chemical Substances  [Authorized at a extracted from RTECS - Register of Toxic Effect of chemical Substances  [Authorized at a extracted from RTECS - Register of Toxic Effect of chemical Substances  [Authorized at a extracted from RTECS - Register of Toxic Effect of chemical Substances  [Authorized at a extracted from RTECS - Register of Toxic Effect of chemical Substances  [Authorized at a extracted from RTECS - Register of Toxic Effect of chemical Substances  [Authorized at a extracted from RTECS - Register of Toxic Effect of chemical Substances  [Authorized at a extracted from RTECS - Register of Toxic Effect of chemical Substances  [Authorized at a extracted from RTECS - Register of Toxic Effect of chemical Substances  [Authorized at a extracted from RTECS - Register of Toxic Effect of chemical Substances  [Authorized at a extracted from RTECS - Register of Toxic Effect of chemical Substances  [Authorized at a extracted from RTECS - Register of Toxic Effect of chemical Substances  [Authorized at a extracted from RTECS - Register of Toxic Effect of chemical Substances  [Authorized at a extracted from RTECS - Register of Toxic Effect of chemical Substances  [Authorized at a extracted from RTECS - Register of Toxic Effect of chemical Substances  [Authorized at a extracted from RTECS - Register of Toxic Effect of chemical Substances  [Authorized a		Oral(Rat) LD50; 6000 mg/kg <sup>[1]</sup>				
dermal (rat) LD50: 525 mg/kg <sup>[1]</sup> [Eye(rabbit): 100 mg rinse - mild  Inhalation(Mouse) LC50; 0.177 mg/L4h <sup>[2]</sup> [Dral(Mouse) LD50; 270 mg/kg <sup>[2]</sup> [Skin(rabbit): 500 mg open - SEVERE  Skin(rabbit): 500 mg open - SEVERE  Skin(rabbit): 500 mg/24hr - SEVERE  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  RESENE 81A ETCH PRIMER  The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. Data demonstrate that during inhalation exposure, aromatic hydrocarbons undergo substantial partitioning into adipose tissues.  For toluene: Acute Toxicity Humans exposed to intermediate to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis, and death.  ACETONE  for acetone: The acute toxicity of acetone is low.  for n-butanol Acute toxicity: n-Butanol (BA) was only slightly toxic to experimental animals following acute oral, dermal, or inhalation exposure.  Other Toxicity data is available for CHEMWATCH 12172 1,2,3-trimethylbenzene CHEMWATCH 2325 1,3,5-trimethylbenzene						
Inhalation(Mouse) LC50; 0.177 mg/L4h <sup>[2]</sup> Eye(rabbit): 5 mg - SEVERE  Oral(Mouse) LD50; 270 mg/kg <sup>[2]</sup> Skin(rabbit): 500 mg open -SEVERE  Skin(rabbit): 500 mg open -SEVERE  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  The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. Data demonstrate that during inhalation exposure, aromatic hydrocarbons undergo substantial partitioning into adipose tissues.  For tolluene: Acute Toxicity Humans exposed to intermediate to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis, and death.  ACETONE  N-BUTANOL  for n-butanol Acute toxicity: n-Butanol (BA) was only slightly toxic to experimental animals following acute oral, dermal, or inhalation exposure.  Other Toxicity data is available for CHEMWATCH 12172 1,2,3-trimethylbenzene CHEMWATCH 2325 1,3,5-trimethylbenzene		TOXICITY		IRRITATION		
Cral(Mouse) LD50; 270 mg/kg <sup>[2]</sup> Skin(rabbit): 500 mg open -SEVERE  Skin(rabbit): 500 mg open -SEVERE  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  The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. Data demonstrate that during inhalation exposure, aromatic hydrocarbons undergo substantial partitioning into adipose tissues.  For toluene: Acute Toxicity Humans exposed to intermediate to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis, and death.  ACETONE  N-BUTANOL  N-BUTANOL  Other Toxicity data is available for CHEMWATCH 12172 1,2,3-trimethylbenzene CHEMWATCH 2325 1,3,5-trimethylbenzene		dermal (rat) LD50: 525 mg/kg <sup>[1]</sup> Eye(rational content of the cont		Eye(rabbit): 100 mg rinse	- 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  The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. Data demonstrate that during inhalation exposure, aromatic hydrocarbons undergo substantial partitioning into adipose tissues.  For toluene:  Acute Toxicity Humans exposed to intermediate to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis, and death.  ACETONE  N-BUTANOL  N-BUTANOL  Other Toxicity data is available for CHEMWATCH 12172 1,2,3-trimethylbenzene CHEMWATCH 2325 1,3,5-trimethylbenzene	phenol	Inhalation(Mouse) LC50; 0.177 mg/L4h <sup>[2]</sup>		Eye(rabbit): 5 mg - SEVE	RE	
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  The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. Data demonstrate that during inhalation exposure, aromatic hydrocarbons undergo substantial partitioning into adipose tissues.  For toluene: Acute Toxicity Humans exposed to intermediate to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis, and death.  ACETONE  ACETONE  for acetone: The acute toxicity of acetone is low.  for n-butanol Acute toxicity: n-Butanol (BA) was only slightly toxic to experimental animals following acute oral, dermal, or inhalation exposure.  1,2,4-TRIMETHYL BENZENE  Other Toxicity data is available for CHEMWATCH 12172 1,2,3-trimethylbenzene CHEMWATCH 2325 1,3,5-trimethylbenzene		Oral(Mouse) LD50; 270 mg/kg <sup>[2]</sup>		Skin(rabbit): 500 mg oper	n-SEVERE	
RESENE 81A ETCH PRIMER  The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. Data demonstrate that during inhalation exposure, aromatic hydrocarbons undergo substantial partitioning into adipose tissues.  For toluene: Acute Toxicity Humans exposed to intermediate to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis, and death.  ACETONE  N-BUTANOL  N-BUTANOL  Other Toxicity data is available for CHEMWATCH 12172 1,2,3-trimethylbenzene CHEMWATCH 2325 1,3,5-trimethylbenzene				Skin(rabbit): 500 mg/24hr	- SEVERE	
The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. Data demonstrate that during inhalation exposure, aromatic hydrocarbons undergo substantial partitioning into adipose tissues.  For toluene: Acute Toxicity Humans exposed to intermediate to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis, and death.  ACETONE  N-BUTANOL  N-BUTANOL  Other Toxicity: n-Butanol (BA) was only slightly toxic to experimental animals following acute oral, dermal, or inhalation exposure.  1,2,4-TRIMETHYL BENZENE  Other Toxicity data is available for CHEMWATCH 12172 1,2,3-trimethylbenzene CHEMWATCH 2325 1,3,5-trimethylbenzene	Legend:				nanufacturer's SDS. Unless otherwise	
Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema.  Data demonstrate that during inhalation exposure, aromatic hydrocarbons undergo substantial partitioning into adipose tissues.  For toluene: Acute Toxicity Humans exposed to intermediate to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis, and death.  ACETONE  N-BUTANOL  N-BUTANOL  Other Toxicity: n-Butanol (BA) was only slightly toxic to experimental animals following acute oral, dermal, or inhalation exposure.  Other Toxicity data is available for CHEMWATCH 12172 1,2,3-trimethylbenzene CHEMWATCH 2325 1,3,5-trimethylbenzene		opeomed data extracted nom TV 200 Treglator of	TOXIO ENGLI OF GHOMICAL C	abotanoco		
Data demonstrate that during inhalation exposure, aromatic hydrocarbons undergo substantial partitioning into adipose tissues.  For toluene:						
TOLUENE Acute Toxicity Humans exposed to intermediate to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis, and death.  ACETONE for acetone: The acute toxicity of acetone is low.  N-BUTANOL for n-butanol Acute toxicity: n-Butanol (BA) was only slightly toxic to experimental animals following acute oral, dermal, or inhalation exposure.  1,2,4-TRIMETHYL BENZENE Other Toxicity data is available for CHEMWATCH 12172 1,2,3-trimethylbenzene CHEMWATCH 2325 1,3,5-trimethylbenzene	RESENE 81A ETCH PRIMER			•		
Humans exposed to intermediate to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis, and death.  ACETONE for acetone: The acute toxicity of acetone is low.  for n-butanol Acute toxicity: n-Butanol (BA) was only slightly toxic to experimental animals following acute oral, dermal, or inhalation exposure.  1,2,4-TRIMETHYL BENZENE Other Toxicity data is available for CHEMWATCH 12172 1,2,3-trimethylbenzene CHEMWATCH 2325 1,3,5-trimethylbenzene		For toluene:				
for acetone: The acute toxicity of acetone is low.  N-BUTANOL  N-BUTANOL  N-BUTANOL  Acute toxicity: n-Butanol (BA) was only slightly toxic to experimental animals following acute oral, dermal, or inhalation exposure.  1,2,4-TRIMETHYL BENZENE  Other Toxicity data is available for CHEMWATCH 12172 1,2,3-trimethylbenzene CHEMWATCH 2325 1,3,5-trimethylbenzene	TOLUENE	Humans exposed to intermediate to high levels of to	· ·	f time experience adverse of	central nervous system effects ranging	
N-BUTANOL for n-butanol Acute toxicity: n-Butanol (BA) was only slightly toxic to experimental animals following acute oral, dermal, or inhalation exposure.  1,2,4-TRIMETHYL BENZENE Other Toxicity data is available for CHEMWATCH 12172 1,2,3-trimethylbenzene CHEMWATCH 2325 1,3,5-trimethylbenzene	ACETONE	for acetone:				
1,2,4-TRIMETHYL BENZENE Other Toxicity data is available for CHEMWATCH 12172 1,2,3-trimethylbenzene CHEMWATCH 2325 1,3,5-trimethylbenzene	N_RLITANO!	for n-butanol				
					· · · · · · · · · · · · · · · · · · ·	
The material may produce severe skin irritation after prolonged or repeated exposure, and may produce a contact dermatitis (nonallergic).	1,2,4-TRIMETHYL BENZENE		·		•	
The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in animal testing.	PHENOL	The substance is classified by IARC as Group 3: <b>NOT</b> classifiable as to its carcinogenicity to humans	š.	λροσαίε, από may produce	-а сонтаст сентация (понанегдіс).	

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# **RESENE 81A ETCH PRIMER**

**RESENE 81A ETCH PRIMER &** For trimethylbenzenes: 1,2,4-TRIMETHYL BENZENE Absorption of 1,2,4-trimethylbenzene occurs after oral, inhalation, or dermal exposure. **RESENE 81A ETCH PRIMER &** Methyl ethyl ketone is considered to have a low order of toxicity; however methyl ethyl ketone is often used in combination with other solvents METHYL ETHYL KETONE and the toxic effects of the mix may be greater than either solvent alone. **TOLUENE & METHYL ETHYL** KETONE & ACETONE & The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). N-BUTANOL METHYL ETHYL KETONE & N-BUTANOL & 1,2,4-TRIMETHYL BENZENE & Asthma-like symptoms may continue for months or even years after exposure to the material ceases. **PHENOL** N-BUTANOL & PHENOL The material may produce severe irritation to the eye causing pronounced inflammation. **Acute Toxicity** Carcinogenicity Skin Irritation/Corrosion Reproductivity V × Serious Eye Damage/Irritation STOT - Single Exposure Respiratory or Skin ~ STOT - Repeated Exposure sensitisation

Legend:

🗶 – Data either not available or does not fill the criteria for classification

– Data available to make classification

**Aspiration Hazard** 

Mutagenicity

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	1							
	Endpoint	Test Duration (hr)		Species	Value		Source	
RESENE 81A ETCH PRIMER	Not Available	Not Available		Not Available	Not Availa	ble		
	Endpoint	Test Duration (hr)	Spe	ecies		Value		Source
	LC50	96h	Fisl	1		5-35mg/l		4
toluene	EC50	48h	Cru	stacea		3.78mg/L		5
	NOEC(ECx)	168h	Cru	stacea		0.74mg/L		5
	EC50	96h	Alg	ae or other aquatic plants	3	>376.71m	g/L	4
	Endpoint	Test Duration (hr)	S	pecies		Value		Source
	NOEC(ECx)	48h	С	rustacea		68mg/	l	2
methyl ethyl ketone	EC50	72h	А	lgae or other aquatic pla	nts	1972m	ng/l	2
	LC50	96h	F	ish			ng/L	4
	EC50	48h	С	rustacea		308mg	g/l	2
	EC50	96h	A	lgae or other aquatic pla	nts	>500n	ng/l	4
	Endpoint	Test Duration (hr)	Speci	es	V	'alue		Source
	NOEC(ECx)	48h	Fish		0	.001mg/L		4
acetone	LC50	96h	Fish	Fish >10		100mg/l		4
	EC50	48h	Crusta	acea	6	098.4mg/L		5
	EC50	96h	Algae	or other aquatic plants	r aquatic plants 9.873-		ng/l	4
	Endpoint	Test Duration (hr)	Sp	ecies		Value		Source
	NOEC(ECx)	504h	Cru	ıstacea		4.1mg/l		2
	EC50	72h	Alg	ae or other aquatic plant	S	>500mg/		1
n-butanol	LC50	96h	Fis	h		100-500r	ng/l	4
	EC50	48h	Cru	ıstacea				1
	EC50	96h	Alg	ae or other aquatic plant	S	225mg/l		2
						1		
	<b>-</b>		Spe	ecies		Value		Source
	Endpoint	Test Duration (hr)						_
	BCF	1344h	Fis			31-207		7
1,2,4-trimethyl benzene	BCF EC50(ECx)	1344h 96h	Fis	ae or other aquatic plants	S	2.356mg		2
1,2,4-trimethyl benzene	BCF EC50(ECx) LC50	1344h 96h 96h	Fisi Alg	ae or other aquatic plants		2.356mg 3.41mg/l		2 2
1,2,4-trimethyl benzene	BCF EC50(ECx)	1344h 96h	Fis Alg	ae or other aquatic plants		2.356mg	/I	2

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#### **RESENE 81A ETCH PRIMER**

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Endpoint	Test Duration (hr)	Species	Value	Source
EC50	72h	Algae or other aquatic plants	48.937-57.407mg/L	4
LC50	96h	Fish	2.809-5.554mg/L	4
EC50	48h	Crustacea	3.1mg/l	1
EC10(ECx)	504h	Crustacea	0.05mg/l	2
EC50	96h	Algae or other aquatic plants	10.6mg/L	4

#### Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Harmful to aquatic organisms. When spilled this product may For 1,2,4-trimethylbenzene:

When spilled this product may act as a typical oil, causing a film, sheen, emulsion or sludge at or beneath the surface of the body of water.

Half-life (hr) air : 0.48-16 Half-life (hr) H2O surface water : 0.24-672 Half-life (hr) H2O ground : 336-1344 Half-life (hr) soil : 168-672

Half-life (hr) soil : 168-672 Henry's Pa m3 /mol: 385-627 Bioaccumulation : not significant

1,2,4-Trimethylbenzene is a volatile organic compound (VOC) substance.

For aromatic hydrocarbons:

Within an aromatic series, acute toxicity increases with increasing alkyl substitution on the aromatic nucleus.

For methyl ethyl ketone: log Kow: 0.26-0.69 log Koc: 0.69 Koc: 34 Half-life (hr) air: 2.3

Half-life (hr) H2O surface water: 72-288

Henry's atm m3 /mol: 1.05E-05 BOD 5 : 1.5-2.24, 46% COD : 2.2-2.31, 100% ThOD : 2.44 BCF : 1

Environmental fate:

TERRESTRIAL FATE: Measured Koc values of 29 and 34 were obtained for methyl ethyl ketone in silt loams.

For ketones

Ketones, unless they are alpha, beta--unsaturated ketones, can be considered as narcosis or baseline toxicity compounds

Hydrolysis may also involve the addition of water to ketones to yield ketals under mild acid conditions.

For toluene: log Kow : 2.1-3 log Koc : 1.12-2.85 Koc : 37-260 log Kom : 1.39-2.89 Half-life (hr) air : 2.4-104

Half-life (hr) H2O surface water : 5.55-528 Half-life (hr) H2O ground : 168-2628 Half-life (hr) soil : <48-240 Henry's Pa m3 /mol: 518-694 Henry's atm m3 /mol: 5.94E-03 BOD 5 0.86-2.12, 5% COD : 0.7-2.52,21-27% ThOD : 3.13

ThOD: 3.13 BCF: 1.67-380 log BCF: 0.22-3.28 Environmental fate:

Transport: The majority of toluene evaporates to the atmosphere from the water and soil. It is moderately retarded by adsorption to soils rich in organic material (Koc = 259), therefore, transport to ground water is dependent on the soil composition.

for acetone: log Kow: -0.24

Half-life (hr) H3O surface

Half-life (hr) H2O surface water: 20 Henry's atm m3 /mol: 3.67E-05 BOD 5: 0.31-1.76,46-55%

COD: 1.12-2.07 ThOD: 2.2 BCF: 0.69

# Environmental fate:

Acetone preferentially locates in the air compartment when released to the environment.

DO NOT discharge into sewer or waterways.

#### Persistence and degradability

· · · · · · · · · · · · · · · · · · ·	,				
Ingredient	Persistence: Water/Soil	Persistence: Air			
toluene	LOW (Half-life = 28 days)	LOW (Half-life = 4.33 days)			
methyl ethyl ketone	LOW (Half-life = 14 days)	LOW (Half-life = 26.75 days)			
acetone	LOW (Half-life = 14 days)	MEDIUM (Half-life = 116.25 days)			
n-butanol	LOW (Half-life = 54 days)	LOW (Half-life = 3.65 days)			
1,2,4-trimethyl benzene	LOW (Half-life = 56 days)	LOW (Half-life = 0.67 days)			
phenol	LOW (Half-life = 10 days)	LOW (Half-life = 0.95 days)			

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#### **RESENE 81A ETCH PRIMER**

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#### Bioaccumulative potential

Ingredient	Bioaccumulation
toluene	LOW (BCF = 90)
methyl ethyl ketone	LOW (LogKOW = 0.29)
acetone	LOW (BCF = 0.69)
n-butanol	LOW (BCF = 0.64)
1,2,4-trimethyl benzene	LOW (BCF = 275)
phenol	LOW (BCF = 17.5)

#### Mobility in soil

Ingredient	Mobility
toluene	LOW (KOC = 268)
methyl ethyl ketone	MEDIUM (KOC = 3.827)
acetone	HIGH (KOC = 1.981)
n-butanol	MEDIUM (KOC = 2.443)
1,2,4-trimethyl benzene	LOW (KOC = 717.6)
phenol	LOW (KOC = 268)

#### **SECTION 13 Disposal considerations**

#### Waste treatment methods

▶ Containers may still present a chemical hazard/ danger when empty. Legislation addressing waste disposal requirements may differ by country, state and/ or territory.

DO NOT allow wash water from cleaning or process equipment to enter drains.

Product / Packaging disposal

► Recycle wherever possible. Consult manufacturer for recycling option.

Resene Paintwise accepts residual unwanted paint and packaging. See Resene website for Paintwise information. Or contact a Local Authority for the disposal information. Do not discharge the substance into the environment.

#### **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.

Do not allow product or wash water from cleaning or process equipment to enter drains or watercourses. It may be necessary to collect all wash water for treatment before disposal. The generation of waste should be avoided or minimised wherever possible

Disposal of this product should comply with Hazard Substances (Disposal) Notice 2017 (EPA Consolidation 30 April 2021) and local regulations.

Flammable substance can be disposed of if the substance is treated by using a method that changes the characteristics or composition of the substance so that the substance is no longer a hazardous substance, or exporting the substance from New Zealand as waste.

For treating and discharging processes contact your local authority.

The treating may include burning the substance if the burning is managed to ensure that no person, or place where a person may legally be present.

The substance may be discharged into the environment as waste or disposed into a landfill if the substance will not come into contact with oxidising substances and where is no ignition source which is capable to ignite the substance.

# **SECTION 14 Transport information**

# **Labels Required**



# **Marine Pollutant**



**HAZCHEM** 

•3YE

#### Land transport (UN)

UN number	1263
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)
Transport hazard class(es)	Class 3 Subrisk Not Applicable
Packing group	Ш

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# **RESENE 81A ETCH PRIMER**

Environmental hazard	Environmentally hazar	rdous
Special precautions for user	Special provisions	163; 367
	Limited quantity	5 L

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

UN number	1263			
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)			
	ICAO/IATA Class	3		
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
	ERG Code	3L		
Packing group	П			
Environmental hazard	Environmentally hazardous			
	Special provisions		A3 A72 A192	
	Cargo Only Packing In	nstructions	364	
	Cargo Only Maximum Qty / Pack		60 L	
Special precautions for user	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 Maximum Qty / Pack	1 L	

# Sea transport (IMDG-Code / GGVSee)

UN number	1263		
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)		
Transport hazard class(es)	IMDG Class   3     IMDG Subrisk   Not Applicable		
Packing group	II		
Environmental hazard	Marine Pollutant		
Special precautions for user	EMS Number F-E , S-E Special provisions 163 367 Limited Quantities 5 L		

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

# Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
toluene	Not Available
methyl ethyl ketone	Not Available
acetone	Not Available
n-butanol	Not Available
1,2,4-trimethyl benzene	Not Available
phenol	Not Available

# Transport in bulk in accordance with the ICG Code

Product name	Ship Type
toluene	Not Available
methyl ethyl ketone	Not Available
acetone	Not Available
n-butanol	Not Available
1,2,4-trimethyl benzene	Not Available
phenol	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

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#### **RESENE 81A ETCH PRIMER**

**HSR Number Group Standard** HSR002662 Surface Coatings and Colourants Flammable Group Standard 2020

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

#### toluene is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

#### methyl ethyl ketone is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

#### New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

#### acetone is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

#### New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

#### n-butanol is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

## 1,2,4-trimethyl benzene is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

#### phenol is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

## **Hazardous Substance Location**

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

Hazard Class	Quantity (Closed Containers)	Quantity (Open Containers)
3.1B	100 L in containers more than 5 L	50 L
3.1B	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	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	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
6.5A or 6.5B	120	1	3	
3.1B				1 L

#### **Tracking Requirements**

Not Applicable

#### National Inventory Status

•	
National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
New Zealand - NZIoC	Yes

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#### **RESENE 81A ETCH PRIMER**

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National Inventory	Status
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	17/08/2021
Initial Date	11/10/2017

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
0.4.7.9	16/08/2021	Classification, 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.

#### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

ES: Exposure Standard

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List

NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers

ENCS: Existing and New Chemical Substances Inventory

KECI: Korea Existing Chemicals Inventory

NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act

TCSI: Taiwan Chemical Substance Inventory

INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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