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Section 1: Identification of the substance/mixture and of the company/undertaking

Product name: HX628HP/NC

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

1.3. Details of the supplier of the safety data sheet

Company name:	Robnor Resins Ltd 31 Athena Avenue
	Elgin Industrial Estate
	Swindon
	Wiltshire
	SN2 8EJ
	United Kingdom
Tel:	+44(0)1793 823741
Fax:	+44(0)1793 827033
Email:	support@robnor.co.uk

1.4. Emergency telephone number

Emergency tel: +44(0)1793 823741

(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP:	Aquatic Chronic 2: H411; Repr. 2: H361f; Skin Corr. 1B: H314; Skin Sens. 1: H317
Most important adverse effects:	Causes severe skin burns and eye damage. May cause an allergic skin reaction.
	Suspected of damaging fertility. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements:	
Hazard statements:	H314: Causes severe skin burns and eye damage.
	H317: May cause an allergic skin reaction.
	H361f: Suspected of damaging fertility.
	H411: Toxic to aquatic life with long lasting effects.
Signal words:	Danger
Hazard pictograms:	GHS05: Corrosion
	GHS07: Exclamation mark
	GHS08: Health hazard
	GHS09: Environmental

Precautionary statements: P202: Do not handle until all safety precautions have been read and understood.

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P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water/shower.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+313: IF exposed or concerned: Get medical advice.
P321: Specific treatment (see instructions on this label).

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

FATTY ACIDS, VEGETABLE-OIL, REACTION PRODUCTS WITH, TETRAETHYLENEPENTAMINE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
273-652-9	68991-84-4	-	Skin Irrit. 2: H315; Eve Dam. 1: H318; Aquatic Chronic 2: H411	
2-PIPERAZIN-1	-YLETHYLAMINE			
205-411-0	140-31-8	-	Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 3: H412	10-30%
3,6-DIAZAOCT	ANETHYLENEDIAMI	NE		
203-950-6	112-24-3	-	Acute Tox. 4: H312; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 3: H412	
2,2'-IMINODIE	THYLAMINE			
203-865-4	111-40-0	-	Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317	1-10%
4,4'-ISOPROPY	LIDENEDIPHENOL			
201-245-8	80-05-7	-	Repr. 2: H361f; STOT SE 3: H335; Eye Dam. 1: H318; Skin Sens. 1: H317	1-10%
1,3-BENZENED	IOL			
203-585-2	108-46-3	-	Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Aquatic Acute 1: H400	1-10%
3,6,9-TRIAZAU	NDECAMETHYLENE	DIAMINE		
203-986-2	112-57-2	-	Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 2: H411	1-10%

Section 4: First aid measures

4.1. Description of first aid measures

 Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.
 Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

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Ingestion:	If conscious, give half a litre of water to drink immediately. Do not induce vomiting.		
	Transfer to hospital as soon as possible.		
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. If		
	unconscious, check for breathing and apply artificial respiration if necessary. If		
	unconscious and breathing is OK, place in the recovery position. Consult a doctor.		
4.2. Most important symptom	is and effects, both acute and delayed		
Skin contact:	Irritation or pain may occur at the site of contact. Progressive ulceration will occur if		
	treatment is not immediate. Absorption through the skin may occur causing symptoms		
	similar to those of ingestion.		
Eye contact:	There may be irritation and redness. The eyes may water profusely. There may be		
	severe pain. Corneal burns may occur.		
Ingestion:	Corrosive burns may appear around the lips. There may be soreness and redness of the		
	mouth and throat. Nausea and stomach pain may occur. There may be vomiting. There		
	may be mental confusion. Inhalation of fumes from the stomach may cause symptoms		
	similar to direct inhalation.		
Inhalation:	Exposure may cause coughing or wheezing. There may be shortness of breath with a		
	burning sensation in the throat. Nausea and stomach pain may occur. There may be		
	vomiting.		
Delayed / immediate effects:	Delayed effects can be expected after long-term exposure.		
4.3. Indication of any immed	ate medical attention and special treatment needed		
Immediate / special treatment:	Immediate medical attention is required. Show this safety data sheet to the doctor in		
	attendance. Eye bathing equipment should be available on the premises.		

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Corrosive. In combustion emits toxic fumes. In combustion emits toxic fumes of nitrogen oxides.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Do not attempt to take action without suitable protective clothing - see section 8 of SDS. If outside do not approach from downwind. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

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6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

 Storage conditions:
 Store in a cool, well ventilated area. Keep container tightly closed. Avoid incompatible materials and conditions - see section 10 of SDS.

 Suitable packaging:
 Must only be kept in original packaging.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

2,2'-IMINODIETHYLAMINE

Workplace exp	posure limits:		Respirable dust	
State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	4.3 mg/m3	-	-	-
4,4'-ISOPROP	YLIDENEDIPHENOL			
UK	5 mg/m3	5 mg/m3	-	
1,3-BENZENED	DIOL			
υк	46 mg/m3	92 mg/m3	-	_

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures:	Ensure there is sufficient ventilation of the area.
Respiratory protection:	Self-contained breathing apparatus must be available in case of emergency.
Hand protection:	Butyl gloves. Neoprene gloves.
Eye protection:	Safety goggles. Ensure eye bath is to hand.
Skin protection:	Impermeable protective clothing.
Environmental:	Ensure emissions from ventilation or equipment comply with environmental protection
	legislation.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid Colour: Pale yellow Odour: Characteristic odour Solubility in water: Soluble Flash point°C: 148-154

Relative density: 0.98

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat. Hot surfaces.

10.5. Incompatible materials

Materials to avoid: Acids. Oxidising agents.

10.6. Hazardous decomposition products

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
ORL	RAT	LD50	2500	mg/kg
ORL	MUS	LD50	1600	mg/kg
IVN	MUS	LD50	350	mg/kg

Hazardous ingredients:

2-PIPERAZIN-1-YLETHYLAMINE

IPR	MUS	LD50	250	ma/ka
ORL	RAT	LD50	2140	µl/kg

3,6-DIAZAOCTANETHYLENEDIAMINE

IVN	MUS	LD50	350	ma/ka
ORL	MUS	LD50	1600	mg/kg
ORL	RAT	LD50	2500	mg/kg

2,2'-IMINODIETHYLAMINE

IPR	RAT	LD50	74	ma/ka
ORL	MUS	LD50	970	mg/kg
ORL	RAT	LD50	970	mg/kg

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4,4'-ISOPROPYLIDENEDIPHENOL

ORL	MUS	LD50	2400	ma/ka
ORL	RAT	LD50	3250	mg/kg

1,3-BENZENEDIOL

ORL	MUS	LD50	200	mg/kg
ORL	RAT	LD50	301	mg/kg
SCU	MUS	LD50	213	mg/kg

3,6,9-TRIAZAUNDECAMETHYLENEDIAMINE

IPR	RAT	LD50	205	ma/ka
IVN	MUS	LD50	320	mg/kg
ORL	RAT	LD50	3990	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	DRM	Hazardous: calculated
Reproductive toxicity		Hazardous: calculated

Symptoms / routes of exposure

Skin contact:	Irritation or pain may occur at the site of contact. Progressive ulceration will occur if treatment is not immediate. Absorption through the skin may occur causing symptoms similar to those of ingestion.
Eye contact:	There may be irritation and redness. The eyes may water profusely. There may be
	severe pain. Corneal burns may occur.
Ingestion:	Corrosive burns may appear around the lips. There may be soreness and redness of the
	mouth and throat. Nausea and stomach pain may occur. There may be vomiting. There may be mental confusion. Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation.
Inhalation:	Exposure may cause coughing or wheezing. There may be shortness of breath with a
	burning sensation in the throat. Nausea and stomach pain may occur. There may be vomiting.
nediate effects:	Delayed effects can be expected after long-term exposure

Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Only slightly biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Harmful to soil organisms. Harmful to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN2735

14.2. UN proper shipping name

Shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.

(2-PIPERAZIN-1-YLETHYLAMINE, TRIETHYLENTETRAMINE, DIETHYLENETRIAMINE)

Marine pollutant: No

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: ||

14.5. Environmental hazards

Environmentally hazardous: Yes

14.6. Special precautions for user

Tunnel code: E

Transport category: 2

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Section 16: Other information

Other information

Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.
	* indicates text in the SDS which has changed since the last revision.
Phrases used in s.2 and s.3:	H302: Harmful if swallowed.
	H312: Harmful in contact with skin.
	H314: Causes severe skin burns and eye damage.
	H315: Causes skin irritation.
	H317: May cause an allergic skin reaction.
	H318: Causes serious eye damage.

H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H361f: Suspected of damaging fertility.
H400: Very toxic to aquatic life.
H411: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.
Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.



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Section 1: Identification of the substance/mixture and of the company/undertaking

1	.1.	Proc	luct	identifier
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Product name: RX628HP/NC

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

1.3. Details of the supplier of the safety data sheet

Company name:	Robnor Resins Ltd 31 Athena Avenue
	Elgin Industrial Estate
	Swindon
	Wiltshire
	SN2 8EJ
	United Kingdom
Tel:	° °
	11(0)1770 020711
Fax:	+44(0)1793 827033
Email:	support@robnor.co.uk

1.4. Emergency telephone number

Emergency tel: +44(0)1793 823741

(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP:	Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317
Most important adverse effects:	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.
	Toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements:	
Hazard statements:	H315: Causes skin irritation.
	H317: May cause an allergic skin reaction.
	H319: Causes serious eye irritation.
	H411: Toxic to aquatic life with long lasting effects.
Signal words:	Warning
Hazard pictograms:	GHS07: Exclamation mark
	GHS09: Environmental
Precautionary statements:	P264: Wash hands thoroughly after handling.
	P302+352: IF ON SKIN: Wash with plenty of water/.

P273: Avoid release to the environment.

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P280: Wear protective gloves.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321: Specific treatment (see instructions on this label).
P332+313: If skin irritation occurs: Get medical attention.
P363: Wash contaminated clothing before reuse.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

ORTHO CRESOL NOVALAC EPOXY RESIN

EINECS	CAS	PBT / WEL	CLP Classification	Percent	
-	94362-50-2	-	Skin Irrit. 2: H315; Skin Sens. 1:	30-50%	
			H317; Aquatic Chronic 2: H411; Eye		

CHALK

-	471-34-1	Substance with a Community workplace exposure limit.	-	30-50%	
1,4-BIS(2,3-EPC	1,4-BIS(2,3-EPOXYPROPOXY) BUTANE				

219-371-7	2425-79-8	-	Acute Tox. 4: H332; Acute Tox. 4:	10-30%	
			H312; Eye Irrit. 2: H319; Skin Irrit. 2:		
			H315; Skin Sens. 1: H317		
			,		

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.
 Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.
 Ingestion: Wash out mouth with water. Do not induce vomiting. Consult a doctor.
 Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure

- may cause coughing or wheezing.
- Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

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		Page:
5.1. Extinguishing media		
	Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.	
5.2. Special hazards arising from	om the substance or mixture	
Exposure hazards:	In combustion emits toxic fumes.	
5.3. Advice for fire-fighters		
	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.	
ection 6: Accidental release	measures	
6.1. Personal precautions, pro	otective equipment and emergency procedures	
	Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.	
6.2. Environmental precaution	IS	
Environmental precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.	
6.3. Methods and material for	containment and cleaning up	
	Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.	
6.4. Reference to other section	ns	
Reference to other sections:	Refer to section 8 of SDS.	
ection 7: Handling and stora	ıge	
7.1. Precautions for safe hand	lling	
• •	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.	
7.2. Conditions for safe storage	ge, including any incompatibilities	
	Store in a cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids.	
7.3. Specific end use(s)		
Specific end use(s):	No data available.	

Hazardous ingredients:

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CHALK						
Workplace exposure limits:			Respirable dust			
State 8 hour 1	rwa 📃	15 min. STEL	8 hour TWA	15 min. STEL		
UK	-		- mg/m3	-		
DNEL/PNEC Values						
DNEL / PNEC	No data ava	ilable.				
8.2. Exposure controls						
Engineering measures: Ensure there is sufficient ventilation of the area. The floor of the storage room must						
be impermeable to prevent the escape of liquids.						
			ust be available in case of emerge	ency.		
Hand protection:	-					
		es. Ensure eye bath is to	hand.			
Skin protection:		0	s or the immediate environment.			
Section 9: Physical and chem	lical proper	rties				
9.1. Information on basic phy	ysical and ch	emical properties				
State:	Liquid					
Colour:	Various					
9.2. Other information						
Other information:	Other information: No data available.					
Section 10: Stability and read	ctivity					
10.1. Reactivity						
Reactivity:	Stable unde	r recommended transport	or storage conditions.			
10.2. Chemical stability		p				
Chemical stability:	Stable under	r pormal conditions				
10.3. Possibility of hazardous		normal conditions.				
Hazardous reactions:			der normal transport or storage co			
10.4. Conditions to avoid	Decompositi	on may occur on exposur	e to conditions or materials listed	below.		
	11					
	Conditions to avoid: Heat.					
10.5. Incompatible materials						
Materials to avoid: Strong oxidising agents. Strong acids.						
10.6. Hazardous decompositi	on products					
Haz. decomp. products:	In combusti	on emits toxic fumes.				
Section 11: Toxicological info	ormation					
11.1. Information on toxicolo	ogical effects	5				

Hazardous ingredients:

1,4-BIS(2,3-EPOXYPROPOXY) BUTANE

ORL	MUS	LD50	1100	ua/ka
ORL	RAT	LD50	1134	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	DRM	Hazardous: calculated

Symptoms / routes of exposure

 Skin contact:
 There may be irritation and redness at the site of contact.

 Eye contact:
 There may be irritation and redness. The eyes may water profusely.

 Ingestion:
 There may be soreness and redness of the mouth and throat.

 Inhalation:
 There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: Bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms. Toxic to soil organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal

company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN3082

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Marine pollutant: No

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(ORTHO CRESOL NOVALAC EPOXY RESIN)

14.3. Transport hazard class(es)

Transport class: 9

14.4. Packing group

Packing group: |||

14.5. Environmental hazards

Environmentally hazardous: Yes

14.6. Special precautions for user

Special precautions: No special precautions. Tunnel code: E Transport category: 3

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Section 16: Other information

Other information

Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No
	453/2010.
	* indicates text in the SDS which has changed since the last revision.
Phrases used in s.2 and s.3:	H312: Harmful in contact with skin.
	H315: Causes skin irritation.
	H317: May cause an allergic skin reaction.
	H319: Causes serious eye irritation.
	H332: Harmful if inhaled.
	H411: Toxic to aquatic life with long lasting effects.
Legal disclaimer:	The above information is believed to be correct but does not purport to be all inclusive
	and shall be used only as a guide. This company shall not be held liable for any damage
	resulting from handling or from contact with the above product.