

BANDU

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

1.1. Product identifier

Product name: BANDU

Product code: 10257

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

Use of substance / mixture: Insecticide.

1.3. Details of the supplier of the safety data sheet

Company name: Headland Agrochemicals

Rectors Lane

Pentre

Flintshire

CH5 2DH

United Kingdom

Tel: +44(0)1244 537370

Fax: +44(0)1244 532097

Email: enquiry@headlandgroup.com

1.4. Emergency telephone number

Emergency tel: +44(0)1244 537370

(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP:	* -: R10; Xn: R20/22; Xi: R37/38; Xi: R41; Xn: R65; N: R50/53
Classification under CLP:	* Flam. Liq. 3: H226; Acute Tox. 4: H302; Asp. Tox. 1: H304; Skin Irrit. 2: H315; Eye Dam.
	1: H318; STOT SE 3: H335; STOT SE 3: H336; Aquatic Chronic 1: H410; Acute Tox. 4:
	H332; -: EUH401
Most important adverse effects:	Flammable. Harmful by inhalation and if swallowed. Irritating to respiratory system and
	skin. Risk of serious damage to eyes. Harmful: may cause lung damage if swallowed.
	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic
	environment.

2.2. Label elements

Label elements under CLP:

Hazard statements: * H226: Flammable liquid and vapour.

H302: Harmful if swallowed.

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H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H410: Very toxic to aquatic life with long lasting effects.

EUH401: To avoid risks to human health and the environment, comply with the instructions for use.

Signal words: * Danger

Hazard pictograms: * GHS02: Flame

GHS05: Corrosion

GHS07: Exclamation mark

GHS08: Health hazard

GHS09: Environmental



Precautionary statements: * P240: Ground/Bond container and receiving equipment. P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P307+311: IF exposed: Call a POISON CENTER or doctor.

P501: Dispose of contents/container to hazardous or special waste collection point.

Label elements under CHIP:

Hazard symbols: Harmful.

Dangerous for the environment.



Risk phrases: * R10: Flammable.

R20/22: Harmful by inhalation and if swallowed. R37/38: Irritating to respiratory system and skin.

R41: Risk of serious damage to eyes.

R65: Harmful: may cause lung damage if swallowed.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S23: Do not breathe vapour.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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	S35: This material and its container must be disposed of in a safe way.		
	S37/39: Wear suitable gloves and eye / face protection.		
	S38: In case of insufficient ventilation, wear suitable respiratory equipment.		
	S57: Use appropriate container to avoid environmental contamination.		
	S62: If swallowed, do not induce vomiting: seek medical advice immediately and show		
	this container or label.		
Precautionary phrases:	To avoid risks to man and the environment, comply with the instructions for use.		
2.3. Other hazards			
Other hazards:	Cutaneous sensations may occur, such as burning or stinging on the face and		
	mucosae. However, these sensations cause no lesions and are of a transitory nature		
	(max. 24 hours).		
PBT:	This product is not identified as a PBT substance.		

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC

EINEC	S CAS	CHIP Classification	CLP Classification	Percent
265-199-0) 64742-95-6	-: R10; Xi: R37; Xn: R65; -: R66; -: R67; N: R51/53	Flam. Liq. 3: H226; Asp. Tox. 1: H304; STOT SE 3: H335; Aquatic Chronic 2: H411: STOT SE 3: H336	10-30%

TETRAPROPYLENE BENZENE SULFONATE, CALCIUM SALT

	312; Skin Irrit. 2: H315; 1-5% 18; Aquatic Chronic 3: 1
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2-METHYLPROPAN-1-OL

201-148-0	78-83-1	-: R10; Xi: R37/38; Xi: R41; -: R67	Flam. Liq. 3: H226; STOT SE 3: H335;	1-5%
			Skin Irrit. 2: H315; Eye Dam. 1: H318;	
			STOT SE 3: H336	

DELTAMETHRIN

258-256-6	52918-63-5	T: R23/25; N: R50/53	Acute Tox. 3: H331; Acute Tox. 3: H301;	1-5%
			Aquatic Acute 1: H400; Aquatic Chronic	
			1: H410	

2,6-DI-TERT-BUTYL-4-METHYLPHENOL

204-881-4	128-37-0	N: R50/53	Aquatic Acute 1: H400; Aquatic Chronic	<1%
			1: H410	

Section 4: First aid measures

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4.1. Description of first aid measures

4.1. Description of first and fi	
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. Warm water may increase the subjective severity of the irritation/paresthesia.
	This is not a sign of systemic poisoning. In case of skin irritation, application of oils or
	lotions containing vitamin E may be considered. If symptoms persist, call a physician.
Eye contact:	Bathe the eye with running water for 15 minutes. Remove contact lenses, if present, after
·	the first few minutes, then continue rinsing. Warm water may increase the subjective
	severity of the irritation/paresthesia. This is not a sign of systemic poisoning. Apply
	soothing eye drops, if needed anaesthetic eye drops. Consult a doctor if irritation
	persists or problems with vision occur.
Ingestion:	Wash out mouth with water. Give water to drink in small doses. Do not induce vomiting.
	Risk of product entering the lungs on vomiting after ingestion. Transfer to hospital as
	soon as possible.
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a
	doctor.
4.2. Most important symptom	ns and effects, both acute and delayed
	·
	There may be irritation and redness at the site of contact. * There may be pain and redness. The eyes may water profusely. May cause permanent
Lye contact.	damage.
Indestion:	There may be soreness and redness of the mouth and throat. Nausea and stomach
ingestion.	pain may occur.
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest. There may be
initiation	coughing and a sore throat.
Delaved / immediate effects:	Immediate effects can be expected after short-term exposure. Systemic effects may
	include: Tachycardia, Hypotension, Blurred vision, Anorexia, Somnolence, Coma,
	Convulsions, Tremors, Prostration, Airway hyperreaction, Pulmonary oedema, Muscular
	fasisculation, Apathy.
4.3 Indication of any immedi	ate medical attention and special treatment needed
mmediate / special treatment:	* This product contains a pyrethroid. Pyrethroid poisoning should not be confused with
	carbamate or organophosphate poisoning. Initial treatment should be symptomatic. In
	cases of significant ingestion, gastric lavage should be considered only within the first
	two hours. The application of activated charcoal and sodium sulphate is always
	advisable. Keep respiratory tract clear. Supply oxygen or artificial respiration if needed. In
	cases of convulsions, a benzodiazepine (e.g. diazepam) should be given according to
	standard regimens. If not effective, phenobarbital may be used. Atropine or derivatives of
	adrenaline should not be used. There is no specific antidote. Recovery is spontaneous

and without sequelae.

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Section 5: Fire-fighting meas	sures	
5.1. Extinguishing media]
Extinguishing media:	Water spray. Alcohol resistant foam. Dry chemical powder. Carbon dioxide. Do not use	
	high volume water jet. Use water spray to cool containers.	
5.2. Special bazards arising f	rom the substance or mixture]
		1
-	Flammable. In combustion emits toxic fumes.	1
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. Contaminated fire extinguishing water should not be discharged into	
	drains, if preventable.	
Section 6: Accidental release	e measures	
6.1. Personal precautions, pr	otective equipment and emergency procedures	
Personal precautions:	* Refer to section 8 of SDS for personal protection details. If outside keep bystanders	
	upwind and away from danger point. Mark out the contaminated area with signs and	
	prevent access to unauthorised personnel. Avoid contact with spilled material or	
	contaminated surfaces. Eliminate all sources of ignition.	
6.2. Environmental precautio	ns]
Environmental precautions:	* Do not discharge into drains or rivers. Contain the spillage using bunding. Accidental	
· · · · ·	release into water courses must be alerted to the appropriate regulatory body. If spillage	
	enters rivers or watercourses inform the Environment Agency (emergency telephone	
	number 0800 807060).	
6.3. Methods and material for	r 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. Clean floors and contaminated objects with plenty	
	of water. Do not use equipment in clean-up procedure which may produce sparks.	
6.4. Reference to other section	ons	
Reference to other sections:	Refer to section 8 of SDS. Refer to section 13 of SDS.	
Section 7: Handling and stor	age	
_		 1
7.1. Precautions for safe han	aling	
Handling requirements:	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.	
	Keep away from heat and sources of ignition. Vapours may form explosive mixture with	
	air. Use non-sparking tools. Take precautionary measures against static discharges.	
	Carefully rinse hands after handling and before eating, drinking or smoking.	

[cont...]

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Keep away from direct sunlight. Protect from frost. The room should only be used for storage of chemicals, and without access to unauthorised persons or children. Food, drink, feed and seed should not be present.
 Suitable packaging: Coextruded containers with an internal barrier layer made of ethylene vinyl alcohol

copolymer (EVOH). Black mild steel sheet with interior coating.

7.3. Specific end use(s)

Specific end use(s): Refer to label.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

2-METHYLPROPAN-1-OL

Workplace exposure limits:

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	154 mg/m3 (50 ppm)	231 mg/m3 (75 ppm)	-	-

Respirable dust

8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls	
Engineering measures:	Ensure there is sufficient ventilation of the area. Ensure lighting and electrical
	equipment are not a source of ignition.
Respiratory protection:	Gas/vapour filter, type A: organic vapours (EN141). Respiratory protection should only be
	used to control residual risk of short duration activities, when all reasonably practicable
	steps have been taken to reduce exposure.
Hand protection:	Nitrile gloves. Minimum thickness 0.40 mm. Always wash hands after use.
Eye protection:	Wear goggles conforming to EN166 (Field of Use 5 or equivalent). Ensure eye bath is to
	hand.
Skin protection:	Wear standard coverall and Category 3 Type 6 suit. If there is a risk of significant
	exposure, consider a higher protective type suit. Polyester/cotton or cotton overalls
	should be worn under chemical protection suit and should be professionally laundered
	frequently. If chemical protection suit is significantly contaminated, decontaminate as far
	as possible, then carefully remove and dispose of as advised by manufacturer.
Environmental:	Refer to specific Member State legislation for requirements under Community
	environmental legislation.

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Section 9: Physical and chemical properties

State: Liquid

Colour: Yellow

Odour: Aromatic

Solubility in water: Miscible

Flash point°C: 48

Relative density: 0.89 g/ml

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.

pH: 4.0 - 6.0 (1% soln)

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: Extremes of temperature. Direct sunlight.

10.5. Incompatible materials

Materials to avoid: No data available.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
DERMAL	RAT	LD50	>2000	mg/kg
VAPOURS	RAT	4H LC50	2.69	mg/l
ORAL	RAT	LD50	416	mg/kg

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Hazardous ingredients:

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC

ORL RAT LD50	8400	mg/kg
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DELTAMETHRIN

ORL	MUS	LD50	20	mg/kg
ORL	RAT	LD50	9360	µg/kg
SKN	RAT	LD50	>800	mg/kg

2,6-DI-TERT-BUTYL-4-METHYLPHENOL

DERMAL	RAT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>6000	mg/kg

Relevant effects for mixture:

Effect	Route	Basis
Acute toxicity (harmful)	INH ING	Hazardous: calculated
Irritation	OPT INH 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 pain and redness. The eyes may water profusely. May cause permanent
	damage.
Ingestion:	There may be soreness and redness of the mouth and throat. Nausea and stomach
	pain may occur.
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest. There may be
	coughing and a sore throat.
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure. Systemic effects may
	include: Tachycardia, Hypotension, Blurred vision, Anorexia, Somnolence, Coma,
	Convulsions, Tremors, Prostration, Airway hyperreaction, Pulmonary oedema, Muscular
	fasisculation, Apathy.

Section 12: Ecological information

12.1. Toxicity

* Ecotoxicity values:

Species	Test	Value	Units
ALGAE (Selenastrum capricornutum)	96H EC50	60.5	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	0.00925	mg/l

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					Page:
DAPHNIA (Daphnia magna))	48H EC50	0.00011	mg/l	
12.2. Persistence and degrad	lability				
Persistence and degradability:	Deltamethrin: Koc = 10,	240,000; not rapidly bic	degradable.		
12.3. Bioaccumulative potent	tial				
Bioaccumulative potential:	Not expected to bioaccu	ımulate. Deltamethrin: I	og Pow = 6.4 at 25°0	; Bioconcentration	
	factor (BCF) = 1400.		-		
12.4. Mobility in soil					
Mobility:	Deltamethrin is immobil	e in soil.			
12.5. Results of PBT and vPv	B assessment				
PBT identification:	This product is not ident	ified as a PBT substan	ce.		
12.6. Other adverse effects					
Other adverse effects:	Very toxic to aquatic organisms.				
ection 13: Disposal conside	erations				
ection 13: Disposal conside 13.1. Waste treatment metho					
13.1. Waste treatment metho		ent regulations and, if n	ecessary, after const	ultation with the site	
13.1. Waste treatment metho	ds	-	-		
13.1. Waste treatment metho	ds In accordance with curre	responsible authority,	-		
13.1. Waste treatment metho	ds In accordance with curre operator and/or with the disposal site or incinera	responsible authority,	-		
13.1. Waste treatment metho Disposal operations:	ds In accordance with curre operator and/or with the disposal site or incinera 02 01 08	responsible authority, tion plant.	the product may be t	aken to a waste	
13.1. Waste treatment metho Disposal operations: Waste code number:	ds In accordance with curre operator and/or with the disposal site or incinera 02 01 08	responsible authority, tion plant.): Rinse thoroughly usin	the product may be tang an integrated pres	aken to a waste sure rinsing device	
13.1. Waste treatment metho Disposal operations: Waste code number:	ds In accordance with curre operator and/or with the disposal site or incinera 02 01 08 Small containers (<10 L	responsible authority, tion plant.): Rinse thoroughly usin nree times. Add washin	the product may be tan ng an integrated pres gs to the sprayer at t	aken to a waste sure rinsing device he time of filling.	
13.1. Waste treatment metho Disposal operations: Waste code number:	ds In accordance with curre operator and/or with the disposal site or incinera 02 01 08 Small containers (<10 L or by manually rinsing th	responsible authority, tion plant.): Rinse thoroughly usin nree times. Add washin lean packaging safely.	the product may be taining an integrated press gs to the sprayer at t Large containers (>2	aken to a waste sure rinsing device he time of filling.	
13.1. Waste treatment metho Disposal operations: Waste code number: Disposal of packaging:	ds In accordance with curre operator and/or with the disposal site or incinera 02 01 08 Small containers (<10 L or by manually rinsing th Dispose of empty and c	responsible authority, tion plant.): Rinse thoroughly usin nree times. Add washin ean packaging safely. Return large containers	the product may be taining an integrated press gs to the sprayer at t Large containers (>2 s to supplier.	aken to a waste sure rinsing device he time of filling. 5 L): Do not rinse or	
13.1. Waste treatment metho Disposal operations: Waste code number: Disposal of packaging:	ds In accordance with curre operator and/or with the disposal site or incinera 02 01 08 Small containers (<10 L or by manually rinsing th Dispose of empty and c re-use for any purpose.	responsible authority, tion plant.): Rinse thoroughly usin nree times. Add washin lean packaging safely. Return large containers rawn to the possible ex	the product may be taining an integrated press gs to the sprayer at t Large containers (>2 s to supplier.	aken to a waste sure rinsing device he time of filling. 5 L): Do not rinse or	
13.1. Waste treatment metho Disposal operations: Waste code number: Disposal of packaging: NB:	ds In accordance with curre operator and/or with the disposal site or incinera 02 01 08 Small containers (<10 L or by manually rinsing th Dispose of empty and c re-use for any purpose. The user's attention is d regulations regarding di	responsible authority, tion plant.): Rinse thoroughly usin nree times. Add washin lean packaging safely. Return large containers rawn to the possible ex	the product may be taining an integrated press gs to the sprayer at t Large containers (>2 s to supplier.	aken to a waste sure rinsing device he time of filling. 5 L): Do not rinse or	
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13.1. Waste treatment metho Disposal operations: Waste code number: Disposal of packaging: NB: ection 14: Transport inform	ds In accordance with curre operator and/or with the disposal site or incinera 02 01 08 Small containers (<10 L or by manually rinsing th Dispose of empty and c re-use for any purpose. The user's attention is d regulations regarding di	responsible authority, tion plant.): Rinse thoroughly usin nree times. Add washin lean packaging safely. Return large containers rawn to the possible ex	the product may be taining an integrated press gs to the sprayer at t Large containers (>2 s to supplier.	aken to a waste sure rinsing device he time of filling. 5 L): Do not rinse or	

Shipping name: FLAMMABLE LIQUID, N.O.S.

(DELTAMETHRIN; SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC)

14.3. Transport hazard class(es)

Transport class: 3

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14.4. Packing group

Packing group:	III
14.5. Environmental hazards	
Environmentally hazardous:	Yes Marine pollutant: Yes
14.6. Special precautions for	user
Special precautions:	* Special provision 640E (ADR/RID/ADN). Emergency action code 3Y (UK 'Carriage'
-F F	Regulations).
Tunnel code:	
Transport category:	3
14.7. Transport in bulk accor	ding to Annex II of MARPOL73/78 and the IBC Code
Transport in bulk:	The product is not transported in bulk tankers.
Section 15: Regulatory infor	nation
15.1. Safety, health and envir	onmental regulations/legislation specific for the substance or mixture
Specific regulations.	WHO-classification: II (Moderately hazardous) Product Registration Number: MAPP 16153.
45.0 Chamical Cafety Access	
15.2. Chemical Safety Assess	
Chemical safety assessment:	A chemical safety assessment has not been carried out for the substance or the mixture
	by the supplier.
Section 16: Other informatio	n
Other information	
	This safety data sheet is prepared in accordance with Commission Regulation (EU) No
	453/2010.
Other information:	453/2010. * indicates text in the SDS which has changed since the last revision.
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Other information:	 453/2010. * indicates text in the SDS which has changed since the last revision. EUH401: To avoid risks to human health and the environment, comply with the instructions for use. H226: Flammable liquid and vapour. H301: Toxic if swallowed. H302: Harmful if swallowed. H304: May be fatal if swallowed and enters airways. H312: Harmful in contact with skin.
Other information:	 453/2010. * indicates text in the SDS which has changed since the last revision. EUH401: To avoid risks to human health and the environment, comply with the instructions for use. H226: Flammable liquid and vapour. H301: Toxic if swallowed. H302: Harmful if swallowed. H304: May be fatal if swallowed and enters airways. H312: Harmful in contact with skin. H315: Causes skin irritation.
Other information:	 453/2010. * indicates text in the SDS which has changed since the last revision. EUH401: To avoid risks to human health and the environment, comply with the instructions for use. H226: Flammable liquid and vapour. H301: Toxic if swallowed. H302: Harmful if swallowed. H304: May be fatal if swallowed and enters airways. H312: Harmful in contact with skin. H315: Causes skin irritation. H318: Causes serious eye damage.
Other information:	 453/2010. * indicates text in the SDS which has changed since the last revision. EUH401: To avoid risks to human health and the environment, comply with the instructions for use. H226: Flammable liquid and vapour. H301: Toxic if swallowed. H302: Harmful if swallowed. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H318: Causes serious eye damage. H331: Toxic if inhaled.
Other information:	 453/2010. * indicates text in the SDS which has changed since the last revision. EUH401: To avoid risks to human health and the environment, comply with the instructions for use. H226: Flammable liquid and vapour. H301: Toxic if swallowed. H302: Harmful if swallowed. H304: May be fatal if swallowed and enters airways. H312: Harmful in contact with skin. H315: Causes skin irritation. H318: Causes serious eye damage. H331: Toxic if inhaled. H332: Harmful if inhaled.

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	H400: Very toxic to aquatic life.
	H410: Very toxic to aquatic life with long lasting effects.
	H411: Toxic to aquatic life with long lasting effects.
	H412: Harmful to aquatic life with long lasting effects.
	R10: Flammable.
	R20/22: Harmful by inhalation and if swallowed.
	R21: Harmful in contact with skin.
	R23/25: Toxic by inhalation and if swallowed.
	R37/38: Irritating to respiratory system and skin.
	R37: Irritating to respiratory system.
	R38: Irritating to skin.
	R41: Risk of serious damage to eyes.
	R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the
	aquatic environment.
	R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic
	environment.
	R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the
	aquatic environment.
	R65: Harmful: may cause lung damage if swallowed.
	R66: Repeated exposure may cause skin dryness or cracking.
	R67: Vapours may cause drowsiness and dizziness.
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.