

SECTION 1: Identification of t	he substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	Hi-AUBIN
Chemical name	Alpha Cypermethrin 10 EC
1.2. Relevant identified uses of	of the substance or mixture and uses advised against
Identified uses	Insecticide
1.3. Details of the supplier of t	he safety data sheet
Supplier	Hockley Agro Hockley House 3 Longstone Road Ashbrook Office Park Manchester M22 5LB TEL: +44 (0) 161 209 7400 FAX: +44 (0) 161 209 7401 sds@hockley.co.uk
1.4. Emergency telephone nu	mber
Emergency telephone	+44 (0)800 246 1274 (24 hours)
SECTION 2: Hazards identific	ation
2.1. Classification of the subst	ance or mixture
Classification (EC 1272/2008)	
Physical hazards	Flam. Liq. 3 - H226
Health hazards	Acute Tox. 3 - H301 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 STOT SE 3 - H335, H336 STOT RE 2 - H373 Asp. Tox. 1 - H304
Environmental hazards	Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410
2.2. Label elements	
Hazard pictograms	

Signal word

Danger

ger



Hazard statements	H226 Flammable liquid and vapour.
	H301 Toxic if swallowed.
	H332 Harmful if inhaled.
	H315 Causes skin irritation.
	H318 Causes serious eye damage.
	H317 May cause an allergic skin reaction.
	H335 May cause respiratory irritation.
	H336 May cause drowsiness or dizziness.
	H373 May cause damage to organs through prolonged or repeated exposure.
	H410 Very toxic to aquatic life with long lasting effects.
	H304 May be fatal if swallowed and enters airways.
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking.
	P273 Avoid release to the environment.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
	P501 Dispose of contents/ container in accordance with national regulations.
Contains	Hydrocarbons, C9, aromatics, $\alpha$ -cypermethrin (ISO), ISO-BUTANOL, Benzenesulfonic acid,
	C10-13-(linear)alkyl derivs., calcium
Supplementary precautionary	P240 Ground and bond container and receiving equipment.
statements	P241 Use explosion-proof electrical equipment.
	P242 Use non-sparking tools.
	P243 Take action to prevent static discharges.
	P260 Do not breathe vapour/ spray.
	P261 Avoid breathing vapour/ spray.
	P264 Wash contaminated skin thoroughly after handling.
	P270 Do not eat, drink or smoke when using this product.
	P271 Use only outdoors or in a well-ventilated area.
	P272 Contaminated work clothing should not be allowed out of the workplace.
	P302+P352 IF ON SKIN: Wash with plenty of water.
	P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
	Rinse skin with water or shower.
	P312 Call a POISON CENTRE/doctor if you feel unwell.
	P314 Get medical advice/ attention if you feel unwell.
	P321 Specific treatment (see medical advice on this label).
	P330 Rinse mouth.
	P331 Do NOT induce vomiting.
	P332+P313 If skin irritation occurs: Get medical advice/ attention.
	P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
	P362+P364 Take off contaminated clothing and wash it before reuse.
	P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
	P391 Collect spillage.
	P403+P233 Store in a well-ventilated place. Keep container tightly closed.
	P403+P233 Store in a well-ventilated place. Keep container tightly closed. P403+P235 Store in a well-ventilated place. Keep cool.
	P403+P235 Store in a well-ventilated place. Keep cool.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hydrocarbons, C9, aromatics				50-80 %
CAS number: 64742-95-6				
<b>Classification</b> Flam. Liq. 3 - H226 STOT SE 3 - H335, H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411				
α-cypermethrin (ISO)				10.87 %
CAS number: 67375-30-8	EC number: 257-842	2-0		10.07 /0
M factor (Acute) = 1000	M factor (Chronic) =			
		1000		
Classification Acute Tox. 3 - H301 STOT SE 3 - H335 STOT RE 2 - H373 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		•	7/548/EEC or 1999/45/EC) /20/21/22. Xi; R37. N; R50/53	
ISO-BUTANOL				1-5 %
CAS number: 78-83-1	EC number: 201-148	8-0		
<b>Classification</b> Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336		<b>Classification (6</b> R10 Xi;R37/38,F	<b>7/548/EEC or 1999/45/EC)</b> 841 R67	
	<b></b>			0.5%
Benzenesulfonic acid, C10-13-(linea CAS number: 1335202-81-7	r <b>)alkyl derivs., calcium</b> EC number: 932-231	-6	REACH registration number: 01 2119560592-37-XXXX	0 <b>-</b> 5%
<b>Classification</b> Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412				
The Full Text for all R-Phrases and H	azard Statements are Disp	played in Section	16.	
SECTION 4: First aid measures				
4.1. Description of first aid measures				

4.1. Description of first aid	
General information	Never give anything by mouth to an unconscious person. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Get medical attention immediately.
Ingestion	Rinse mouth thoroughly with water. Get medical attention immediately.
Skin contact	Remove contaminated clothing and rinse skin thoroughly with water.
Eye contact	IF IN EYES: Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

General information None known.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting meas	ures
5.1. Extinguishing media	
Suitable extinguishing media	Use foam, carbon dioxide or dry powder to extinguish.
Unsuitable extinguishing media	High volume water jet.
5.2. Special hazards arising fro	om the substance or mixture
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Highly flammable gases or vapours. Oxides of the following substances: Carbon. Nitrogen.
5.3. Advice for firefighters	
Protective actions during firefighting	If risk of water pollution occurs, notify appropriate authorities. Control run-off water by containing and keeping it out of sewers and watercourses.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
SECTION 6: Accidental releas	e measures
6.1. Personal precautions, pro	tective equipment and emergency procedures
Personal precautions	Keep unnecessary and unprotected personnel away from the spillage. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Wear protective clothing as described in Section 8 of this safety data sheet.
6.2. Environmental precautions	3
Environmental precautions	The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment. Avoid the spillage or runoff entering drains, sewers or watercourses. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).
6.3. Methods and material for	containment and cleaning up
Methods for cleaning up	Clear up spills immediately and dispose of waste safely. Contain and absorb spillage with sand, earth or other non-combustible material. Flush contaminated area with plenty of water. Place waste in labelled, sealed containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.
6.4. Reference to other section	
Reference to other sections	Wear protective clothing as described in Section 8 of this safety data sheet. Collect and dispose of spillage as indicated in Section 13.
SECTION 7: Handling and stor	rage
7.1. Precautions for safe hand	ling
Usage precautions	Restricted to professional users. For personal protection, see Section 8. Avoid inhalation of vapours/spray and contact with skin and eyes. Do not eat, drink or smoke when using this product. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Wash contaminated clothing before reuse.

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

Storage precautions	Keep only in the original container in a cool, well-ventilated place. Protect from sunlight. Keep away from food, drink and animal feeding stuffs.
7.3. Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2. Refer to the label and/or leaflet
SECTION 8: Exposure control	s/Personal protection
8.1. Control parameters	
Occupational exposure limits ISO-BUTANOL	
	our TWA): WEL 50 ppm 154 mg/m³
Short-term exposure limit (15- WEL = Workplace Exposure L	minute): WEL 75 ppm 231 mg/m <sup>3</sup> .imit
	α-cypermethrin (ISO) (CAS: 67375-30-8)
Ingredient comm	ents No exposure limits known for ingredient(s).
	ISO-BUTANOL (CAS: 78-83-1)
DNEL	Industry - Inhalation; Long term local effects: 310 mg/m <sup>3</sup>
8.2. Exposure controls	
Eye/face protection	Wear tight-fitting, chemical splash goggles or face shield. (EN 166)
Hand protection	Wear protective gloves. To protect hands from chemicals, gloves should comply with European Standard EN374.
Respiratory protection	Wear a respirator fitted with the following cartridge: Particulate filter, type P2. Particulate filter, type P3.
SECTION 9: Physical and che	emical properties
9.1. Information on basic phys	ical and chemical properties
Appearance	Liquid.
Colour	Beige. Clear.
Odour	Aromatic.
Odour threshold	Not determined.
рН	pH (diluted solution): 4 - 6 (1% solution, 20°C)
Melting point	Not available.
Initial boiling point and range	ca. 150-180°C
Flash point	44°C
Evaporation rate	Not available.
Vapour pressure	ca. 0.2 kPa @ 20°C
Vapour density	Not relevant.
Relative density	ca. 0.91 g/cm3 @ 20°C
Solubility(ies)	Emulsifiable in water.
Partition coefficient	Not available.

Auto-ignition temperature

447°C

Decomposition Temperature	No decomposition if stored and handled as prescribed/indicated	
Viscosity	Not available.	
Explosive properties	Not considered to be explosive.	
Oxidising properties	Not available.	
9.2. Other information		
SECTION 10: Stability and rea	ictivity	
10.1. Reactivity		
Reactivity	No test data specifically related to reactivity available for this product or its ingredients.	
10.2. Chemical stability		
Stability	Stable at normal ambient temperatures and when used as recommended.	
10.3. Possibility of hazardous	reactions	
Possibility of hazardous reactions	No data available.	
10.4. Conditions to avoid		
Conditions to avoid	Avoid exposure to high temperatures or direct sunlight. Avoid the following conditions: Heat, sparks, flames. Freezing.	
10.5. Incompatible materials		
Materials to avoid	None known.	
10.6. Hazardous decomposition products		
Hazardous decomposition	Thermal decomposition or combustion products may include the following substances: Acrid	
products	smoke or fumes. Oxides of carbon. Oxides of nitrogen.	
products SECTION 11: Toxicological int	-	
	formation	
SECTION 11: Toxicological int	formation	
SECTION 11: Toxicological inf 11.1. Information on toxicologi	formation cal effects	
SECTION 11: Toxicological inf 11.1. Information on toxicologi Toxicological effects <u>Acute toxicity - oral</u> Acute toxicity oral (LD <sub>50</sub>	formation cal effects This product is toxic.	
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SECTION 11: Toxicological int 11.1. Information on toxicologi Toxicological effects Acute toxicity - oral Acute toxicity oral (LD <sub>50</sub> mg/kg) Species	formation cal effects This product is toxic. 57.0 Rat	
SECTION 11: Toxicological int 11.1. Information on toxicologi Toxicological effects <u>Acute toxicity - oral</u> Acute toxicity oral (LD <sub>50</sub> mg/kg) Species Notes (oral LD <sub>50</sub> )	formation cal effects This product is toxic. 57.0 Rat LD <sub>50</sub> 93 mg/kg, Oral, Rat	
SECTION 11: Toxicological int 11.1. Information on toxicologi Toxicological effects Acute toxicity - oral Acute toxicity oral (LD <sub>50</sub> mg/kg) Species Notes (oral LD <sub>50</sub> ) ATE oral (mg/kg) Acute toxicity - dermal	formation cal effects This product is toxic. 57.0 Rat LD <sub>50</sub> 93 mg/kg, Oral, Rat 57.0	
SECTION 11: Toxicological inf         11.1. Information on toxicologi         Toxicological effects         Acute toxicity - oral         Acute toxicity oral (LDso         mg/kg)         Species         Notes (oral LDso)         ATE oral (mg/kg)         Acute toxicity - dermal         Notes (dermal LDso)         Acute toxicity - inhalation         Acute toxicity inhalation (LCso	formation cal effects This product is toxic. 57.0 Rat $LD_{so}$ 93 mg/kg, Oral, Rat 57.0 $LD_{so}$ >5000 mg/kg, Dermal, Rat	
SECTION 11: Toxicological inf         11.1. Information on toxicologi         Toxicological effects         Acute toxicity - oral         Acute toxicity oral (LDso         mg/kg)         Species         Notes (oral LDso)         ATE oral (mg/kg)         Acute toxicity - dermal         Notes (dermal LDso)         Acute toxicity - inhalation         Acute toxicity inhalation (LCso         dust/mist mg/l)	formation cal effects This product is toxic. 57.0 Rat $LD_{so}$ 93 mg/kg, Oral, Rat 57.0 $LD_{so} >5000$ mg/kg, Dermal, Rat 0.593	
SECTION 11: Toxicological inf         11.1. Information on toxicologi         Toxicological effects         Acute toxicity - oral         Acute toxicity oral (LD50         mg/kg)         Species         Notes (oral LD50)         ACute toxicity - dermal         Notes (dermal LD50)         Acute toxicity - inhalation         Acute toxicity inhalation (LC50         dust/mist mg/l)         Species	formation           cal effects           This product is toxic.           57.0           Rat           LDso 93 mg/kg, Oral, Rat           57.0           LDso >5000 mg/kg, Dermal, Rat           0.593           Rat	

Serious eye damage/irritation Serious eye damage/irritation	Causes serious eye damage.	
Skin sensitisation Skin sensitisation	May cause an allergic skin reaction.	
Carcinogenicity Carcinogenicity	Not classified.	
Reproductive toxicity		
Reproductive toxicity - fertility	Not classified.	
Reproductive toxicity - development	Not classified.	
Specific target organ toxicity -	single exposure	
STOT - single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.	
Specific target organ toxicity -	repeated exposure	
STOT - repeated exposure	Prolonged or repeated exposure may cause the following adverse effects: Central and/or peripheral nervous system damage.	
Target organs	Nervous system	
Aspiration hazard		
Aspiration hazard	May be harmful if swallowed and enters airways.	
SECTION 12: Ecological inform	nation	
Ecotoxicity	Very toxic to aquatic life with long lasting effects.	
12.1. Toxicity		
Acute aquatic toxicity		
Acute toxicity - fish	LC₅₀, 96 hours: 0.39 mg/m³, Oncorhynchus mykiss (Rainbow trout)	
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 0.42 mg/m³, Daphnia magna	
Acute toxicity - aquatic plants	EC₅₀, 72 hours: >0.053 mg/l, Pseudokirchneriella subcapitata	
12.2. Persistence and degrada	ability	
Persistence and degradability	Not available.	
Phototransformation	Not relevant.	
12.3. Bioaccumulative potential		
Bioaccumulative potential	No information available.	
Partition coefficient	Not available.	
12.4. Mobility in soil		
Mobility	Not available.	
12.5. Results of PBT and vPvE	3 assessment	
Results of PBT and vPvB assessment	No data available.	
12.6. Other adverse effects		
Other adverse effects	No data available.	
SECTION 13: Disposal consid	erations	

#### 13.1. Waste treatment methods

General information	Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
SECTION 14: Transport inform	nation
14.1. UN number	
UN No. (ADR/RID)	2903
UN No. (IMDG)	2903
UN No. (ICAO)	2903
UN No. (ADN)	2903
14.2. UN proper shipping nam	<u>e</u>
Proper shipping name (ADR/RID)	PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S. (ALPHA CYPERMETHRIN)
Proper shipping name (IMDG)	PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S. (ALPHA CYPERMETHRIN)
Proper shipping name (ICAO)	PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S. (ALPHA CYPERMETHRIN)
Proper shipping name (ADN)	PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S. (ALPHA CYPERMETHRIN)
14.3. Transport hazard class(e	es)
ADR/RID class	6.1
ADR/RID subsidiary risk	3
ADR/RID classification code	TF2
ADR/RID label	6.1
IMDG class	6.1
IMDG subsidiary risk	3
ICAO class/division	6.1
ICAO subsidiary risk	3
ADN class	6.1
ADN subsidiary risk	3
Transport labels	
14.4. Packing group	
ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III
14.5 Environmental bazards	

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

EmS	F-E, S-D
ADR transport category	2
Emergency Action Code	•3W
Hazard Identification Number (ADR/RID)	63
Tunnel restriction code	(E)
14.7. Transport in bulk accordi	ng to Annex II of MARPOL and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not relevant.
SECTION 15: Regulatory infor	mation
15.1. Safety, health and enviro	nmental regulations/legislation specific for the substance or mixture
National regulations	Transport Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No 1348) Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997 (SI 1997 No 2367) Air Navigation Dangerous Goods Regulations 2002 (SI 2002 No 2786) Supply and Use Chemical (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716) Chemical (Hazard Information and Packaging for Supply) (Northern Ireland) Regulations 2009 Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No 2677) EH40 Occupational Exposure Limits - Table 1 List of approved workplace exposure limits Control of Pesticide Regulations 1986 Dangerous Substances and Explosive Atmospheres Regulations 2002 Waste Treatment Environmental Protection Act 1990, Part II Environmental Protection (Duty of Care) Regulations 1991 The Waste Management Licensing Regulations 1994 (as amended) Hazardous Waste Regulations 2005 (Replacing Special Waste Regulations 1996 as amended) Landfill Directive Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94) Water Resources Act 1991 Anti-Pollution Works Regulations 1999 MAPP 19018
EU legislation	Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
15.2. Chemical safety assessn	nent

## 15.2. Chemical safety assessment

SECTION 16: Other information		
SDS number	20877	

#### Hazard statements in full

- H226 Flammable liquid and vapour.
- H301 Toxic if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.

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.