

**SAFETY DATA SHEET**  
**ACCORDING TO 1907/2006/EC, ARTICLE 31**

**TANNIN REMOVER**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1: PRODUCT IDENTIFIER**

<b>Product Name</b>	Tannin Remover
<b>Other means of identification</b>	Chlorine Solution Sodium Hypochlorite Solution

**1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST**

<b>Identified uses</b>	Disinfectant
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**1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET**

<b>Supplier</b>	Blueleaf Ltd
<b>Address</b>	Charwood House Oakhurst Business Park Southwater West Sussex RH13 9RT
<b>Web</b>	<a href="http://www.blueleafcare.com">www.blueleafcare.com</a>
<b>Telephone</b>	03300 55 22 88
<b>Fax</b>	
<b>Email</b>	<a href="mailto:info@blueleafcare.com">info@blueleafcare.com</a>
<b>Email address of the competent person</b>	

**1.4 EMERGENCY TELEPHONE NUMBER**


<b>Emergency telephone number</b>	7:00am-5:00pm-Mon to Fri 03300 55 22 88
<b>Further information</b>	Out of Office Hours Emergency Hours Information- For accident and spillages involving this product that pose a threat to the environment, or human health, or require immediate first aid advise please call:- NHS111 Note this number will not provide technical details of the product, or deal with other general enquires regarding application and use of the product.
<b>Uses advised against</b>	

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

<b>2.1.1 Classification – 1999/45/EC</b>	EYE IRRIT. 2 H319
<b>Main Hazards</b>	IRRITATING TO EYES

### 2.2 LABEL ELEMENTS

<b>Symbols</b>	
<b>Signal word</b>	WARNING
<b>Hazard statement</b>	H315 CAUSES SKIN IRRITATION H319-CAUSES SERIOUS EYE IRRITATION H412 HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS
<b>Precautionary Statement: Prevention</b>	P102-KEEP OUT OF REACH OF CHILDREN. P 15- RESTRICTED TO PROFESSIONAL USERS.
<b>Precautionary Statement: Response</b>	P301+P330+P331- IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING. P302+350- IF ON SKIN: GENTLY WASH WITH PLENTY OF SOAP AND WATER. P305+P351+P338- IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. IF MEDICAL ADVICE IS NEEDED, HAVE PRODUCT CONTAINER OR LABEL AT HAND

### 2.3 OTHER HAZARDS

<b>Other hazards</b>	Contact with acids liberates toxic gas
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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Name	Range	EC No	CAS No	Reach No/Submission No	Classification according to 67/548/EEC
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SODIUM HYPOCHLORITE 14- 15%	1-10%	231-668-3	7681-52-9	01-2119488154- 34	H315; H400
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## SECTION 4: FIRST AID MEASURES

### 4.1 DESCRIPTION OF FIRST AID MEASURES

<b>Inhalation</b>	IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE (SHOW THE LABEL WHERE POSSIBLE). IN CASE OF ACCIDENT BY INHALATION: REMOVE CASUALTY TO FRESH AIR AND KEEP AT REST.
<b>Eye contact</b>	RINSE IMMEDIATELY WITH PLENTY OF WATER FOR 15 MINUTES.
<b>Skin Contact</b>	RINSE IMMEDIATELY WITH PLENTY OF WATER
<b>Ingestion</b>	DO NOT INDUCE VOMITING. DRINK 1 TO 2 GLASSES OF WATER. IF SWALLOWED, RINSE MOUTH WITH WATER (ONLY IF PERSON IS CONSCIOUS)

### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

<b>Inhalation</b>	INHALATION MAY CAUSE NAUSEA AND VOMITING.
<b>Eye contact</b>	IRRITATING TO EYES
<b>Skin Contact</b>	IRRITATING TO SKIN
<b>Ingestion</b>	INGESTION MAY CAUSE NAUSEA AND VOMITING

### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

<b>Inhalation</b>	IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE (SHOW LABEL WHERE POSSIBLE) REMOVE THE EFFECTED PERSON FROM THE SOURCE OF CONTAMINATION IMMEDIATELY.
<b>Eye contact</b>	IRRITATING TO EYES. BATHE THE EYE WITH RUNNING WATER FOR 15 MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO.
<b>Skin Contact</b>	IRRITATING TO SKIN. RINSE IMMEDIATELY WITH PLENTY OF WATER.
<b>Ingestion</b>	INGESTION MAY CAUSE NAUSEA AND VOMITING, RINSE MOUTH THOROUGHLY. DRINK 1 TO 2 GLASSES OF WATER

### GENERAL INFORMATION

	AVOID CONTACT WITH EYES AND SKIN. IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL SEEK MEDICAL ADVICE IMMEDIATELY (SHOW LABEL WHERE POSSIBLE)
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## SECTION 5: FIREFIGHTING MEASURES

### 5.1 EXTINGUISHING MEDIA

	WATER SPRAY
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### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

	CARBON DIOXIDE (CO <sub>2</sub> ), IRRITATING GASES OR VAPOURS.
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### 5.3 ADVICE FOR FIREFIGHTERS

	SELF-CONTAINED BREATHING APPARATUS (SCBA) AND PROTECTIVE CLOTHING.
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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

	WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION. WEAR SUITABLE GLOVES AND EYE/FACE PROTECTION.
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### 6.2 ENVIRONMENTAL PRECAUTIONS

	ADVISE LOCAL AUTHORITIES IF LARGE SPILLS CANNOT BE CONTAINED.
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**6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**

	SMALL SPILLAGES UNDER 5 LITRES FLUSH AWAY WITH PLENTY OF WATER. LARGER SPILLAGE ABSORB WITH INERT, ABSORBENT MATERIAL. COLLECT AND PLACE IN SUITABLE WASTE DISPOSAL CONTAINERS AND SEAL SECURELY.
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**6.4 REFERENCE TO OTHER SECTIONS**

	FOR PERSONAL PROTECTION, SEE SECTION 8, FOR WASTE DISPOSAL SEE SECTION 13.
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**FURTHER INFORMATION**

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**SECTION 7: HANDLING AND STORAGE**

**7.1 PRECAUTIONS FOR SAFE HANDLING**

	ADOPT BEST MANUAL HANDLING CONSIDERATIONS WHEN HANDLING, CARRYING AND DISPENSING. AVOID CONTACT WITH EYES AN SKIN. KEEP ONLY IN THE ORIGINAL CONTAINER. KEEP OUT OF REACH OF CHILDREN.
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**7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

	MAY RELEASE DANGEROUS GASES (CHLORINE) DO NOT MIX WITH ANY OTHER PRODUCTS. KEEP ONLY IN THE ORIGINAL CONTAINER.
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**7.3 SPECIFIC END USE(S)**

	THE INEDTIFIED USES FOR THIS PRODUCT ARE DETAILED IN SECTION 1.2.
<b>SUITABLE PACKAGING</b>	KEEP ONLY IN ORIGINAL CONTAINERS.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**


**8.1 CONTROL PARAMETERS**

	NO DATA IS AVAILABLE ON THIS PRODUCT
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**8.1.1 EXPOSURE LIMIT VALUES**

<b>Sodium Hypochlorite 14-15%</b>	WEL 8HR LIMIT PPM:	WEL 8-HR LIMIT MG/M3:
	WEL 15 MIN LIMIT PPM: 2MG/M3	WEL 15 MIN LIMIT MG/M3

**8.2 EXPOSURE CONTROLS**

	
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<b>8.2.1 Appropriate engineering controls</b>	ENSURE ADEQUATE VENTILATION OF THE WORKING AREA
<b>8.2.2 Individual protection measures</b>	AVOID CONTACT WITH EYES AND SKIN. WEAR SUITABLE GLOVES AND EYE FACE PROTECTION.
<b>Eye/face protection</b>	SAFETY GLASSES
<b>Skin protection</b>	RUBBER GLOVES
<b>Hand protection</b>	WEAR SUITABLE GLOVES
<b>Skin protection – other</b>	AVOID CONTACT WITH EYES AND SKIN. WEAR SUITABLE GLOVES AND EYE FACE PROTECTION.
<b>Respiratory protection</b>	NOT NORMALLY REQUIRED
<b>Thermal hazards</b>	CHLORINE
<b>8.2.3 Environmental exposure controls</b>	NOT NORMALLY REQUIRED
<b>Occupational exposure controls</b>	NOT NORMALLY REQUIRED.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<b>State</b>	LIQUID
<b>Colour</b>	YELLOW
<b>Odour</b>	CHARACTERISTIC
<b>pH</b>	10
<b>Melting point</b>	NOT APPLICABLE
<b>Freezing point</b>	-4
<b>Boiling point</b>	105
<b>Flash point</b>	NOT APPLICABLE
<b>Evaporation rate</b>	NOT APPLICABLE
<b>Flammability limits</b>	NOT APPLICABLE
<b>Vapour flammability</b>	NOT APPLICABLE
<b>Vapour pressure</b>	NOT APPLICABLE
<b>Vapour density</b>	-1
<b>Relative density</b>	1
<b>Fat solubility</b>	NOT APPLICABLE
<b>Partition coefficient</b>	NOT APPLICABLE
<b>Autoignition temperature</b>	NOT RELEVANT
<b>Explosive</b>	NOT APPLICABLE
<b>Oxidising</b>	NOT APPLICABLE
<b>Solubility</b>	NOT APPLICABLE

### 9.2 OTHER INFORMATION

<b>Conductivity</b>	NOT APPLICABLE
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<b>Surface tension</b>	NOT APPLICABLE
<b>Gas group</b>	CHLORINE
<b>Benzene content</b>	NOT APPLICABLE
<b>Lead content</b>	NOT APPLICABLE
<b>VOC (volatile organic compounds)</b>	NOT APPLICABLE

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 REACTIVITY

	ACIDS, ALKALI METALS, AMMONIA, COPPER AND ITS ALLOYS, ORGANIC MATERIALS, STRONG OXIDISING AGENTS
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### 10.2 CHEMICAL STABILITY

	DO NOT ALLOW TO FREEZE. STABLE UNDER NORMAL CONDITIONS
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### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

	CONTACT WITH ACIDS LIBERATES TOXIC GAS. OXIDISING AGENT
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### 10.4 CONDITIONS TO AVOID

	HEAT WILL INCREASE PRESSURE IN SEALED CONTAINER.
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### 10.5 INCOMPATIBLE MATERIALS

	ACIDS, ALKALI METALS. CONTACT WITH ACIDS LIBERATES TOXIC GAS (CHLORINE)
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### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

	CHLORINE
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## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

<b>Acute toxicity</b>	NO DATA AVAILABLE
<b>Skin corrosion/irritation</b>	CAUSE IRRITATION TO SKIN
<b>Serious eye damage/irritation</b>	CAUSE IRRITATION TO EYES.
<b>Respiratory or skin sensitisation</b>	MAY CAUSE SENSITISATION BY INHALATION AND SKIN CONTACT.
<b>Germ cell mutagenicity</b>	NO DATA IS AVAILABLE ON THIS PRODUCT.
<b>Carcinogenicity</b>	NO DATA IS AVAILABLE ON THIS PRODUCT.
<b>Reproductive toxicity</b>	NO DATA IS AVAILABLE ON THIS PRODUCT.
<b>STOT-single exposure</b>	NO DATA IS AVAILABLE ON THIS PRODUCT.
<b>STOT-repeated exposure</b>	NO DATA IS AVAILABLE ON THIS PRODUCT.
<b>11.1.4 Toxicological Information</b>	NO DATA AVAILABLE

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 TOXICITY

<b>Sechelle Conctract Bleach</b>	INHALATION RAT LC50/15MIN: 10.5	DERMAL RAT LD: 2000MG/KG
	ORAL MOUSE LD50: 2900-3400MG/KG	
	DERMAL RAT LD50:2000	ORAL RAT LD50: 1100
	<b>Sodium Hypochlorite 14-15%</b>	

### 12.2 PERSISTENCE AND DEGRADABILITY

	MORE THAN 90% BIODEGRADABLE
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### 12.3 BIOACCUMULATIVE POTENTIAL

	DOES NOT BIOACCUMULATE
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### 12.4 MOBILITY IN SOIL

	DO NOT LET PRODUCT CONTAMINATE SUBSOIL.
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### 12.5 RESULTS OF PBT AND VPVB ASSESSMENT

	DNEL: DERIVED NO EFFECT LEVEL
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### 12.6 OTHER ADVERSE EFFECTS

	DNEL: DERIVED NO EFFECT LEVEL
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## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 WASTE TREATMENT METHODS

	DISCHARGE USED SOLUTIONS TO DRAIN. SMALL AMOUNTS (LESS THAN 5 LITRES) OF UNWANTED PRODUCT MAY BE FLUSHED WITH WATER TO SEWER. LARGE VOLUMES MUST BE SENT FOR DISPOSAL AS SPECIAL WASTE. RINSE OUT EMPTY CONTAINER WITH WATER AND CONSIGN TO NORMAL WASTE.
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### GENERAL INFORMATION

	THIS PRODUCT IS CONSIDERED AS NONE HAZARDOUS
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### DISPOSAL METHODS

	LOCAL AND NATIONAL REGULATIONS. THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE WAY.
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### DISPOSAL OF PACKAGING

	EMPTY CONTAINERS CAN BE CLEANED WITH WATER. EMPTY CONTAINERS CAN BE SENT FOR DISPOSAL OR RECYCLING.
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## SECTION 14: TRANSPORT INFORMATION

<b>ADR/RID</b>	THE PRODUCT IS NOT CLASSIFIED AS DANGEROUS FOR CARRIAGE.
<b>IMDG</b>	THE PRODUCT IS NOT CLASSIFIED AS DANGEROUS FOR CARRIAGE.
<b>IATA</b>	THE PRODUCT IS NOT CLASSIFIED AS DANGEROUS FOR CARRIAGE.

## SECTION 15: REGULATORY INFORMATION

### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

<b>Regulations</b>	COMMISSION REGULATION (EU) No 453/2010 OF 20 MAY 2010 AMENDING REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL ON THE REGISTRATION, EVALUATION, AUTHORISATION AND RESTRICTION OF CHEMICALS (REACH), ESTABLISHING A EUROPEAN CHEMICAL AGENCY, AMENDING DIRECTIVE 1999/45/EC AND REPEALING COUNCIL REGULATION (EEC) No 793/93 AND COMMISSION REGULATION (EC) No 1488/94 AS WELL AS COUNCIL DIRECTIVE 76/769/EEC AND COMMISSION DIRECTIVE 91/155/EEC, 93/67/EEC, 93/105/EEC AND 2000/21/EC. 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) ESTABLISHING A EUROPEAN CHEMICAL AGENCY, AMENDING DIRECTIVE 1999/45/EC AND REPEALING COUNCIL REGULATION (EEC) No 793/93 AND COMMISSION REGULATION (EC) No 1488/94 AS WELL AS COUNCIL DIRECTIVE 76/769/EEC AND COMMISSION DIRECTIVES 91/155/EEC, 93/67/EEC AND 2000/21/EC
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### 15.2 CHEMICAL SAFETY ASSESSMENT

	NO DATA IS AVAILABLE ON THIS PRODUCT
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## SECTION 16: OTHER INFORMATION

### OTHER INFORMATION

<b>Text of risk phrases in Section 3</b>	H315-CAUSES SKIN IRRITATION H400-VERY TOXIC TO AQUATIC LIFE.
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### GENERAL INFORMATION

	THE PRODUCT IS NOT CLASSIFIED AS DANGEROUS FOR CARRIAGE. THIS INFORMATION IS CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF AT THE DATE OF PUBLICATION HOWEVER NO GUARANTEE IS MADE TO ITS ACCURACY.
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### FURTHER INFORMATION

	The information contained in this data sheet is, to the best of our knowledge and belief, accurate and is based upon our technical knowledge of the product and the date of issue. No warranty or representation, express or implied, is made as to its accuracy, reliability or completeness.  BLUELEAF LTD WILL NOT BE RESPONSIBLE FOR ANY DAMAGE OR INJURY RESULTING FROM ANY INHERENT HAZARD OF THE MATERIAL, THE ABNORMAL USE OF THE MATERIAL OR FROM FAILURE TO ADHERE TO RECOMMENDATION.
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