



The Green Tree Company®

MATERIAL SAFETY DATA SHEET

ACCORDING TO EC / 453 / 2010

First edition: 01.01.2000
Actual version: EC / CH: E 6.2
Valid from: 26.08.2016

AraBon®

1 IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1 Identification: AraBon® - Antibac

Commercial name/s:

Articles no.:

Formulation no.:

Registration no.: CPID 552470-30

1.2 Relevant identified uses of the mixture① and uses advised against②:

Industrial and professional.

① Odour elimination for sportswear, shoes, garbage cans, etc.

② None.

1.3 Details of the supplier of the safety data sheet:

(CH) Address of the Swiss Manufacturer:

The Green Tree Company

Waidlistrasse 5

CH-8810 Horgen

Responsible for this MSDS:

Rolf Schmidhäusler

Phone: +41 44 770 3015

E-Mail: info@thegreentreecompany.com

Phone: +41 55 460 1212

E-Mail: rolf@rsg-europe.com

1.4 Emergency Phone

Of the manufacturer:

Monday – Friday: 08:00 – 17:00

Phone: (CH) +44 770 3015

Of the toxicological Centre of Switzerland:

24h emergency number (from Switzerland)

Telefon: (CH) +44 251 5151

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Other toxicological centres:

(AT) Vergiftungsinformationszentrale, 1090 Wien	+43 (1) 406 4343	Deutsch, Englisch
(BE) Centre Antipoisons, 1120 Brüssel	+32 (70) 245 245	Französisch, Flämisch, Englisch
(CH) Toxikologisches Zentrum, 8028 Zürich 145	+41 (0)44 251 5151	Deutsch, Französisch, Englisch, Italienisch
(CZ) Poison Information Centre, 1280 Prag	+42 (02) 249 192 93	Tschechisch, Deutsch, Englisch
(DE) Beratungsstelle für Vergiftungserscheinungen, Berlin	+49 761 19240	Deutsch, Englisch
(DK) Giftinformationen, 2400 Copenhagen	+45 (35) 316 060	Dänisch, Englisch
(ES) Servicio Nacional de Información Txicológica, Madrid	+34 (91) 562 84 69	Spanisch, englisch
(FR) Centre Anti-Poisons, 67091 Strasbourg	+33 (3) 883 737 37	Französisch, Deutsch, Englisch
(FI) Poison Information Centre, 00290 Helsinki	+358 (9) 471 977	Finnisch, Schwedisch, Englisch
(GB) National Poison Inform. Centre, London SE14 5ER	+44 (171) 635 9191	Englisch
(GR) Poison Information Centre, 11527 Athen	+30 (1) 799 3777	Griechisch, Englisch
(HR) Poison Control Centre, 10000 Zagreb	+385 (1) 222 302	Kroatisch
(IT) Centro Antiveleni, 00161 Roma	+39 (6) 490 663	Italienisch, Französisch, Englisch
(LT) Poison Centre, 2043 Vilnius	+370 (2) 269 583	Litauisch, Russisch, Deutsch, Englisch
(NL) Nationaal Vergiftingen Informatie Centrum, Bilthoven	+31 (30) 274 88 88	Niederländisch, Französisch, Deutsch, Englisch
(NO) Giftinformasjonssentralen, 0034 Oslo	+47 (22) 591 300	Norwegisch, Englisch
(PL) National Poison Information Centre, 90950 Łódź	+48 (42) 657 99 0	Polnisch, Deutsch, Englisch
(PT) Centro de Informacao Antivenenos, 1749075 Lisboa	+351 (1) 795 01 43	Portugiesisch, Französisch, Englisch
(RU) Toxicology Information & Advisory Centre, Moskau	+7 (95) 928 1647	Russisch (Englisch)
(SE) Giftinformationscentralen, 17176 Stockholm	+46 (8) 736 0384	Schwedisch, Englisch
(SK) Poison Information Centre, 83101 Bratislava	+00421 (17) 547 741 66	Slowakisch, Deutsch, Englisch
(SL) Poison Control Center, 1000 Ljubljana	+386 (61) 302 457	Englisch, (Deutsch, Französisch)
(TR) National Poison Control Center, 06100 Ankara	+90 312 433 7001	Türkisch, (Englisch)
(HU) Departement of Clinical Toxicology, Budapest VII	+36 (1) 215 215	Ungarisch, Deutsch, Englisch



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2 HAZARDS IDENTIFICATION

Classification of the mixture:
Classification and labelling according to directive 1272/2008/EC:
Product does not request any classification.

2.2 Label elements:

Classification according to 1272/2008/EC:

N.a.

Applicable exemptions:

No.

Signal word(s) N.a.

Component(s): N.a.

H - Phrases:

--- N.a.

P - Phrases:

P102 Keep out of reach of children.

P301-330-331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.

P305-351-338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/attention if you feel unwell.

Additional markings:

EUH208 Contains: Lilal / 2-(4-tert-butylbenzyl)propional-aldehyde - may cause allergenic reactions.

Hazard pictogram(s):



2.3 Other hazards:

D.n.d.

3 INFORMATION ON THE COMPOSITION / INGREDIENTS

3.1 Chemical Characterisation:

Preparation / Mixture.

3.2 Dangerous Ingredients:

CAS-Nr. EINECS-Nr. INDEX-Nr. REACH-Nr.	Substance name EC-Name IUPAC declaration	m%-range	Symbol	H-phrases	§
N.a. N.a. N.a. N.a.	Does not contain substances which require a classification.	---	---	---	

3.3 Allergenic substances regarding EC 2001/15:

CAS-Nr. EINECS-Nr. INDEX-Nr. REACH-Nr.	Substance name EC-Name IUPAC declaration	m%-range	Symbol	H-phrases
80-54-6 201-289-8 Pre-Registration Proc.	LILAL 2-(4-TERT-BUTYLBENZYL)PROPIONAL- ALDEHYDE	<0,02	GHS07	H302, H317

§ = substances with limited values / exposure control - see section 8.

Full texts of H-phrases of substances are indicated under section 16.

4 FIRST AID MEASURES

4.1 Description of first aid measures:

4.1.1 Inhalation:

Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration.

4.1.2 Skin contact:

After contact with skin, wash immediately with plenty of soap and water. In the case of skin irritation or allergic reaction see a physician.



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- 4.1.3 **Eye Contact:**
In case of eye contact, remove contact lenses and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.
- 4.1.4 **Ingestion:**
Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Consult a specialist.
- 4.2 **Most important symptoms and effects, both acute and delayed:**
D.n.d.
- 4.6 **Indication of any immediate medical attention and special treatment needed.**
Treat symptomatically.

5 FIRE FIGHTING MEASURES

- 5.1 **Extinguishing media**
- 5.1.1 **Suitable extinguishing media:**
Use dry chemical, CO₂, water spray or alcohol-foam.
- 5.1.2 **Extinguishing media to avoid:**
Water-jet.
- 5.2 **Special hazards arising from the mixture:**
In the event of fire, carbon oxides may be formed.
- 5.3 **Advice to fire fighters:**
- 5.3.1 **Special Protective Equipment:**
Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.
- 5.3.2 **Additional information:**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6 ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal precautions, protective equipment and emergency procedures:**
See chapter/section 8.2.2
- 6.2 **Environmental precautions:**
Do not allow material to contaminate ground water system. Do not contaminate surface water. Prevent further leakage or spillage is safe to do so. Local authorities should be advised if significant spillages cannot be contained.
- 6.3 **Methods and material for containment and cleaning up:**
Sweep up or vacuum up spillage and collect in suitable container for disposal.
- 6.4 **Reference to other sections:**
See sections 8 and 13.

7 HANDLING AND STORAGE

- 7.1 **Precautions for safe handling:**
- 7.1.1 **Precaution for safe handling:**
Avoid contact with the skin and the eyes. When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Wash hands before and at the end of workday.
- 7.1.2 **Precaution in case of fire or explosion:**
Do not smoke. Normal measures for preventive fire protection.
- 7.2 **Conditions for safe storage, including any incompatibilities:**
- 7.2.1 **Storage instructions:**
Keep at temperatures between 5 and 30°C: Keep container tightly closed.
- 7.2.2 **Store away from:**
Do not store together with oxidizing agents.
- 7.2.3 **Further information on Storage Conditions:**
Do not store at high temperatures and under sunlight.
- 7.3 **Specific end use(s):**
N.a.



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8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Material / substance: Limit Values:

N.a.	N.a.	N.a.	N.a.
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8.2 Exposure controls:

8.2.1 Appropriate engineering controls:
Keep adequate ventilation in working area.

8.3 Individual protection measures:

- 8.3.1 Respiratory Protection: Not necessary under normal use of the product.
- 8.3.2 Hand Protection: Not necessary under normal use of the product.
- 8.3.3 Eye Protection: Not necessary under normal use of the product.
- 8.3.4 Skin protection: No need for special protective clothing under normal conditions of use of the product.
- 8.3.5 Other information: N.a.

8.4 Environmental exposure controls:
Do not contaminate / spill into water ways and sewer-systems.

9 PHYSICAL AND CHEMICAL PROPERTIES

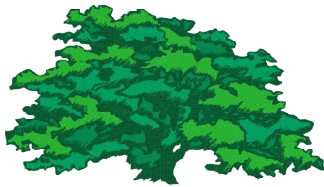
9.1 Information on basic physical and chemical properties:

9.1.1 Form:	Liquid		
9.1.2 Colour:	Transparent	yellowish	
9.1.3 Odour:	product-specific / aromatic		
9.1.4 Molecular weight:	N.a.		
9.1.5 pH value:	100 %:	6,5 - 7,5	10 %: N.a. 1 %: N.a.
9.1.6 Boiling point:		~100 °C	Melting point: ~ -0°C
9.1.7 Flash point:		N.a. °C	
9.1.8 Flammability (CEE A10/A13):		No.	
9.1.9 Ignition temperature:		N.a. °C	
9.1.10 Autoflammability (CEE A16):		No	
9.1.11 Oxidising properties:		No	
9.1.12 Explosion hazard:		No	
9.1.13 Explosion limits (Vol-%)	lower:	N.a.	upper: N.a.
9.1.14 Vapour pressure:		N.a.	hPa
9.1.15 Density at 20°C:		~1'000	g/l
9.1.16 Solubility in water:		100	%
9.1.17 Partition coefficient, n-octanol/water:		N.a.	
9.1.18 Dynamic viscosity:		<20	mPa*s
9.1.19 Solvent content (m %):		N.a.	%
9.1.20a V.O.C. content - EC :		0,021	%
9.1.20b V.O.C. content - CH :		0,021	%
9.2 Other information:			
9.2.1 Thermal decomposition		n.a.	°C
9.2.2 Vapour density (Air = 1):		n.a.	
9.2.3 Surface tension		30 - 40	mN/m2 SITA Tensiometer

10 STABILITY AND REACTIVITY

- 10.1 Reactivity:
None.
- 10.2 Chemical stability:
Stable under normal conditions.
- 10.3 Possibility of hazardous reactions:
No dangerous reaction known under normal use.





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- 10.4 Conditions to avoid:
Keep storing temperature under +50 °C. Avoid exposure to direct sunlight.
- 10.5 Incompatible materials:
Strong oxidizing agents.
- 10.6 Hazardous decomposition products:
None known.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

11.1.1 The toxicological data refer to the substances in this preparation:

Acute toxicity by inhalation:	LC ₅₀ Rat, (mg/l 4h):	N.a.
Acute toxicity by ingestion:	LD ₅₀ Rat, (mg/kg): OECD 401	>5000 mg/kg
Acute toxicity by skin contact:	LD ₅₀ Rabbit, (mg/kg):	>5'000 mg/kg
Corrosion / irritation on skin:	Rabbit, DOT, 24h	No-
Corrosion / irritation on eye:	Rabbit, DOT	No-
Sensitization:	Guinea pig, OECD 406	No.

11.1.2 Subacute / Chronic Toxicity:

Carcinogenicity:	None.
Mutagenicity:	None.
Teratogenicity:	None.
Narcotic effects:	None:

11.2 Practical Experiences:

11.2.1 Observations relevant for classification:
None.

11.2.2 Further Observations:
None.

11.3 General Remarks:
Classification of the preparation has been done by calculation in accordance with EEC directives.

12 ECOLOGICAL INFORMATION

The described ecological effects of the preparation are based on the substances in this preparation:

12.1 Eco-Toxicity:

Fish toxicity:	US-EPA,	96 h	CL50	>100 mg/l
Toxicity to water flea:	OECD 202,	48 h	CE50	>100 mg/l
Toxicity to algae's:	OECD 201	72 h	CE50	>100 mg/l

12.2 Persistence and degradability:

Stability in water:	EPA-FIFRA	N.d.a.
Biodegradability:	OECD 303 A	N.d.a.
	OECD 302 A: 7 d	N.d.a.
	OECD 301 D/E: 28 d	>70%

The individual substances in this mixture (see section 3) are classified as being readily biodegradable, according to OECD 302B testing: (>70% / 28d).

12.3 Mobility:

N.a.

12.4 Bioaccumulation potential:

None.

12.5 Results of PBT and vPvB-assessment :

The preparation does not contain substances considered/classified as PBT od VPvB.

12.6 Other adverse effects:

- 12.6.1 COD-Value (mg/g) n.a.
- 12.6.2 BOD5-Value (mg/g) n.a.
- 12.6.3 AOX-Remarks: The preparation does not contain any organic halogens.
- 12.6.4 Significant components: None.

12.7 Other adverse effects:

No effect on the ozone-layer. No effect on the global warming-up.



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13 DISPOSAL CONSIDERATIONS

Do not dispose into areas where an accumulation of the preparation could be a danger/hazard.

13.1 Waste treatment methods.

13.1.1 Recommendation : D 10 / R 2 Waste code nr.: 20 01 29
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
In addition comply with the regional authorities.

13.1.2 Manipulation : See sections 7 and 15.
Avoid contact with skin, eyes and clothing.

13.2 Containment Packaging:

13.2.1 Recommendation : Wash with suitable cleaner. Otherwise as described under residues.

Manipulation : As described under residues.

14 TRANSPORT INFORMATION

	ADR No.	IMDG	IATA
14.1 UN- number:	N.a.		
14.2 UN proper shipping name:	N.a.		
14.3 Transport hazard class:	N.a.		
14.4 Packaging group:	N.a.		
14.5 Environmental hazards:	No.	No.	No.
14.6 Special precaution for user:			Packaging instructions:
Transport category: ---	Nr. EmS - fire: ---		Passenger aircraft:
Classification code: ---	Nr. EmS - spillage : ---		Cargo aircraft:
Hazard no.: ---			
LQ: ---			
Transport in common: ---			
Tunnel restrictions:			
14.7 Transport in bulk according to annex II of MARPOL 73/78 and the IBC-Code:	Na.	N.a.	n.a.
14.8 Other shipping information:	None.		

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations / legislations specific for the mixture:

Ensure that all local, regional regulations are respected.

15.1.1 National Regulation Switzerland (CH)

- Öffentliches Produktregister CPID 552470-30
- Chemikalien Gesetz
- Verordnung über den Schutz vor gefährlichen Stoffen und Zubereitungen. SR 813.1
- Biozidprodukteverordnung SR 813.11
- Verordnung über die Lenkungsabgabe auf flüchtigen organischen Verbindungen SR 813.12 <1,0%
- Gewässerschutzgesetz / Gewässerschutzverordnung SR 814.018
- Jugendarbeitsschutzverordnung SR 814.20/201 - Klasse 2
- Chemikalien-Risikoreduktions-Verordnung, SR 822.115
- SR 814.81

15.2 Other National Regulations:

Water pollutant class (Germany): WGK 1.

15.3 Chemical safety assessment:

This preparation does not require a special chemical safety assessment.



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16 OTHER INFORMATIONS

Symbols from chapter 3:

GHS02



Flammable

GHS05



Corrosive

GHS06



Toxic

GHS07



Harmful

GHS08



Health Hazard

GHS09



Environmental
Hazard

No Symbol



16.1 Text of H-phrases in section 3.2 :
--- N.a.

16.2 Information about this Safety Data Sheet:

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

Changes in this MSDS are marked with a red bar on the right side of the corresponding section.