



Întreprindere Individuală Garda Andrea Ilona
CUI RO25358250
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Bihor, Romania, tel.: 0743-437-978, 0771-270-706



Material Safety Data Sheet

EU Regulation: 2020/878

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

1.1

PRODUCT IDENTIFICATION

PRODUCT NAME	CINNAMON LEAF ESSENTIAL OIL				
BIOLOGICAL DEFINITION	CINNAMOMUM ZEYLANICUM LEAF OIL IS THE VOLATILE OIL OBTAINED FROM THE LEAVES OF CINNAMON, CINNAMOMUM ZEYLANICUM AURACEAE.				
INCI NAME	CINNAMOMUM ZEYLANICUM LEAF OIL				
SYNONYMS & TRADE NAMES					
INTERNAL PRODUCT CODE	K0131				
CAS-NO	84649-98-9	EC NO.	283-479-0	EINECS NO.	283-479-0

1.2

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

COMPANY ADDRESS	I.I. Garda Andrea Ilona, str. Mărășești nr. 7, Salonta 415500, Bihor, Romania				
EMAIL	contact@naturallhome.ro				

1.3

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

EMERGENCY CONTACTS	0771270706				
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SECTION 2: HAZARDS IDENTIFICATION

2.1

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

THE FULL TEXT FOR ALL HAZARD STATEMENTS IS DISPLAYED IN SECTION 16

CLASSIFICATION (EU 1272/2008)

SERIOUS EYE DAMAGE/SEVERE EYE IRRITATION CATEGORY 2 (H319)
SKIN SENSITIZATION CATEGORY 1A (H317)
GERM CELL MUTAGENICITY CATEGORY 2 (H341)
CARCINOGENICITY CATEGORY 1B (H350)
CHRONIC AQUATIC TOXICITY CATEGORY 2 (H411)

2.2

LABEL ELEMENTS

LABEL IN ACCORDANCE WITH REGULATION (EC) NO 1272/2008.

GHS LABEL



GHS07



GHS08



GHS09

SIGNAL WORD

DANGER

CONTAINS

LIMONENE, PINENE BETA, PINENE ALPHA

HAZARDS STATEMENT

H317-MAY CAUSE AN ALLERGIC SKIN REACTION
H319-C AUSES SERIOUS EYE IRRITATION
H341-SUSPECTED OF CAUSING GENETIC DEFECTS
H350-MAY CAUSE CANCER
H411-TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

PRECAUTIONARY STATEMENTS

EUH208-CONTAINS LIMONENE, PINENE BETA, PINENE ALPHA MAY PRODUCE AN ALLERGIC REACTION.
P280-WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION
P263-AVOID CONTACT DURING PREGNANCY/WHILE NURSING
P202-DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD
P302 + P352 - IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER
P333+P313-IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION
P305+P351+P338-IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES IF EASY TO DO. CONTINUE RINSING
P337+P313-IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION
P308+P313-IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION
P273-AVOID RELEASE TO THE ENVIRONMENT
P501-DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL, REGIONAL, NATIONAL, AND INTERNATIONAL REGULATIONS AS APPLICABLE

SUPPLEMENTARY PRECAUTIONARY STATEMENTS

SECTION 16 (OTHER INFORMATION) - PHSK & S

2.3

OTHER HAZARDS

ADVERSE PHYSIO-CHEMICAL PROPERTIES

NO ADDITIONAL DATA AVAILABLE

ADVERSE EFFECTS ON HUMAN HEALTH

CAUSES MILD SKIN IRRITATION TOXIC TO AQUATIC LIFE

PBT OR PVB ACCORDING TO ANNEX I

NO ADDITIONAL DATA AVAILABLE

SECTION 3: COMPOSITION OF INGREDIENTS

3.1 SUBSTANCES

70 - <80% EUGENOL CAS NO: 97-53-0 EC NO: 202-589-1
CLASSIFICATION (EC 1272/2008): ACUTE TOX. 5 (H303) SKIN IRRIT. 2 (H319)
SKIN SENS. 1B (H317) AQUATIC ACUTE 2 (H401)

1 - <10% EUGENYL ACETATE CAS NO: 93-28-7 EC NO: 202-235-6
CLASSIFICATION (EC 1272/2008): ACUTE TOX. 4 (H302) AQUATIC ACUTE 2 (H401)



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1 - <10% BETA-CARYOPHYLLENE CAS NO: 87-44-5 EC NO: 201-746-1
CLASSIFICATION (EC 1272/2008): ASP. TOX. 1 (H304) SKIN SENS. 1B (H317) AQUATIC CHRONIC 3 (H413)

1 - <10.0% BENZYL BENZOATE CAS NO: 120-51-4 EC NO: 204-402-9
CLASSIFICATION (EC 1272/2008): ACUTE TOX. 4 (ORAL)(H302) AQUATIC ACUTE 1 (H400) AQUATIC CHRONIC 2 (H411)

1 - <10% LINALOOL CAS NO: 78-70-6 EC NO: 201-134-4
CLASSIFICATION (EC 1272/2008): FLAM. LIQ. 4 (H227) ACUTE TOX. 5 (H303) SKIN IRRIT. 2 (H315) EYE IRRIT. 2A (H319) SKIN SENS. 1B (H317) AQUATIC ACUTE 3 (H402)

1 - <10% CINNAMALDEHYDE (CINNAMAL) CAS NO: 104-55-2 EC NO: 203-213-9
CLASSIFICATION (EC 1272/2008): ACUTE TOX. 5 (H303) ACUTE TOX. 4 (H312) SKIN IRRIT. 2 (H315) EYE IRRIT. 2A (H319) SKIN SENS. 1A (H317) AQUATIC ACUTE 2 (H401) AQUATIC CHRONIC 3 (H413)

1 - <10% ALPHA-PHELLANDRENE CAS NO: 99-83-2 EC NO: 202-792-5
CLASSIFICATION (EC 1272/2008): FLAM. LIQ. 3 (H226) ASP. TOX. 1 (H304) AQUATIC ACUTE 1 (H400) AQUATIC CHRONIC 1 (H410)

0.1 - <1% ALPHA-PINENE CAS NO: 80-56-8 EC NO: 201-291-9
CLASSIFICATION (EC 1272/2008): FLAM. LIQ. 3 (H226) ACUTE TOX. 4 (H302) SKIN IRRIT. 2 (H315) SKIN SENS. 1B (H317) ASP. TOX. 1 (H304) AQUATIC ACUTE 1 (H400) AQUATIC CHRONIC 1 (H410)

0.1 - <1% SAFROLE CAS NO: 94-59-7 EC NO: 202-345-4
CLASSIFICATION (EC 1272/2008): ACUTE TOX. 4 (H302) MUTA. 2 (H341) CARC. 1B (H350)

0.1 - <1% P-CYMENE CAS NO: 99-87-6 EC NO: 202-796-7
CLASSIFICATION (EC 1272/2008): FLAM. LIQ. 3 (H226) ASP. TOX. 1 (H304) SKIN IRR. 2 (H315) IRR. 2A (H319) ACUTE TOX. 3 (H331) STOT SE 3 (H335) REPR. 2 (H361) AQUATIC CHRONIC 2 (H412)

0.1 - <1% CAMPHENE CAS NO: 79-92-5 EC NO: 201-234-8
CLASSIFICATION (EC 1272/2008): FLAM. SOL. 2 (H228) EYE IRRIT. 2B (H320) AQUATIC ACUTE 1 (H400) AQUATIC CHRONIC 1 (H410)

0.1 - <1% D-LIMONENE CAS NO: 5989-27-5 EC NO: 227-813-5
CLASSIFICATION (EC 1272/2008): FLAM. LIQ. 3 (H226) SKIN IRRIT. 2 (H315) SKIN SENS. 1B (H317) ASP. TOX. 1 (H304) AQUATIC ACUTE 1 (H400) AQUATIC CHRONIC 3 (H412)

0.1 - <1% BETA-PINENE CAS NO: 127-91-3 EC NO: 204-872-5
CLASSIFICATION (EC 1272/2008): FLAM. LIQ. 3 (H226) SKIN IRRIT. 2 (H315) SKIN SENS. 1B (H317) ASP. TOX. 1 (H304) AQUATIC ACUTE 1 (H400) AQUATIC CHRONIC 1 (H410)

0.1 - <1% MYRCENE CAS NO: 123-35-3
CLASSIFICATION (EC 1272/2008): FLAM. LIQ. 3 (H226) SKIN IRRIT. 2 (H315) EYE IRRIT. 2A (H319) ASP. TOX. 1 (H304) AQUATIC ACUTE 1 (H400) AQUATIC CHRONIC 2 (H411)

SECTION 4: FIRST AID MEASURES

4.1

DESCRIPTION OF FIRST AID MEASURES

GENERAL INFORMATION

DO NOT REMOVE CONTAMINATED CLOTHING IMMEDIATELY

INHALATION

GET MEDICAL ATTENTION IMMEDIATELY. REMOVE FROM EXPOSURE SITE TO FRESH AIR, KEEP AT REST.

INGESTION

DO NOT INDUCE VOMITING. IMMEDIATELY RINSE MOUTH AND PROVIDE FRESH AIR. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT

REMOVE CONTAMINATED CLOTHES. WASH THOROUGHLY WITH SOAP AND WATER. CONTACT PHYSICIAN IMMEDIATELY.

EYE CONTACT

IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR UP TO 15 MINUTES. REMOVE ANY CONTACT LENSES IF PRESENT. GET MEDICAL ADVICE/ATTENTION. CONTINUE TO RINSE.



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4.2 MOST IMPORTANT SYMPTOMS (EFFECTS DELAYED)	ITCHING, BURNING, IRRITATION, REDNESS, AND TEARING OF THE EYES. PROLONGED CONTACT MAY CAUSE REDNESS AND IRRITATION.
4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION OR SPECIAL TREATMENT REQUIRED	MAY CAUSE SENSITIZATION IN SUSCEPTIBLE PERSONS REACT SYMPTOMATICALLY

SECTION 5: FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MATERIAL	SUITABLE EXTINGUISHING MEDIA: CARBON DIOXIDE DRY CHEMICAL, FOAM UNSUITABLE EXTINGUISHING MEDIA: DO NOT USE WATER JET AS AN EXTINGUISHER, AS THIS MAY CAUSE REDNESS AND IRRITATION.
5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE MIXTURE	A FIRE WILL OFTEN PRODUCE A THICK BLACK SMOKE. EXPOSURE TO DECOMPOSITION PRODUCTS MAY BE HAZARDOUS TO HEALTH. DO NOT BREATHE IN SMOKE. THERMAL DECOMPOSITION OR COMBUSTION PRODUCTS MAY INCLUDE THE FOLLOWING SUBSTANCES: CARBON DIOXIDE (CO ₂), CARBON MONOXIDE (CO), OTHER TOXIC GASES. CONTAINERS CLOSE TO FIRE SHOULD BE REMOVED OR COOLED WITH WATER.
5.3 ADVICE FOR FIRE-FIGHTERS	AVOID INHALATION OF GENERATED FUMES OR VAPOURS. WEAR SELF-CONTAINED BREATHING PROTECTIVE CLOTHING.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS	WEAR PROTECTIVE CLOTHING AS DESCRIBED IN SECTION 8.1. IF YOU GET THE PRODUCT ON YOUR SKIN, WASH IMMEDIATELY WITH WATER AND SOAP. IF YOU GET THE PRODUCT IN YOUR EYES, WASH IMMEDIATELY WITH WATER AND SOAP. AVOID CONTACT WITH SKIN AND EYES. MAINTAIN ADEQUATE VENTILATION IN THE WORKING AREA AFTER SPILLING.
6.2 ENVIRONMENTAL PRECAUTIONS	DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.
6.3 METHODS & MATERIAL FOR CONTAINMENT AND CLEANING	REMOVE IGNITION SOURCES. PROVIDE ADEQUATE VENTILATION. AVOID EXCESSIVE INHALATION OF FUMES OR VAPOURS.
6.4 SPILLAGE IMMEDIATELY BY USE OF SAND OR INERT POWDER. DISPOSE OF ACCORDING TO LOCAL REGULATIONS.	REFER & CONSIDER SECTION 7, 8.
6.5 REFERENCES TO OTHER SECTIONS	REFER & CONSIDER SECTION 13.

SECTION 7: HANDLING & STORAGE

7.1 PRECAUTIONS FOR SAFE-HANDLING	ENSURE GOOD VENTILATION OF THE WORK SPACE. OBTAIN SPECIAL INSTRUCTIONS BEFORE USE. DO NOT HANDLE UNTIL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. TAKE ALL NECESSARY TECHNICAL MEASURES TO AVOID OR MINIMIZE THE RELEASE OF THE PRODUCT ON THE WORKPLACE. LIMIT QUANTITIES OF PRODUCT AT THE MINIMUM NECESSARY FOR HANDLING AND LIMIT THE NUMBER OF EXPOSED WORKERS. PROVIDE LOCAL EXHAUST OR GENERAL EXHAUST VENTILATION. WEAR PERSONAL PROTECTIVE EQUIPMENT. FLOORS, WALLS AND OTHER SURFACES IN THE HAZARDOUS AREA SHOULD BE PROTECTED FROM CONTACT WITH SKIN AND EYES. AVOID BREATHING DUST/FUME/GAS/MIST/VAPOURS/SPRAYS. SEPARATE WORKING CLOTHES FROM TOWN CLOTHES. LAUNDRY SEPARATELY. CONTAMINATED CLOTHING SHOULD BE ALLOWED OUT OF THE WORKPLACE. WASH CONTAMINATED CLOTHING BEFORE REUSE. DO NOT REUSE CLOTHING WHEN USING THIS PRODUCT. ALWAYS WASH HANDS AFTER HANDLING THE PRODUCT.
7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES	KEEP THE PRODUCT CONTAINER TIGHTLY CLOSED, IN A DRY, VENTILATED AREA. KEEP AWAY FROM HEAT, FLAME, SPARKS, AND PROTECTED FROM LIGHT. MAINTAIN LIMITED CONTACT WITH OXYGEN.
7.3 SPECIFIC END USES	No data.

SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1 CONTROL PARAMETERS	EXPOSURE LIMITS THIS PRODUCT, AS SUPPLIED, DOES NOT CONTAIN ANY HAZARDOUS MATERIALS WITH OCCUPATIONAL EXPOSURE LIMITS ESTABLISHED BY THE REGION SPECIFIC REGULATORY BODIES. BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS THIS PRODUCT, AS SUPPLIED, DOES NOT CONTAIN ANY HAZARDOUS MATERIALS WITH BIOLOGICAL EXPOSURE LIMITS ESTABLISHED BY THE REGION SPECIFIC REGULATORY BODIES.
8.2 EXPOSURE CONTROLS	



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Eye Protection	WEAR PROTECTIVE GLOVES EYE PROTECTION FACE PROTECTION
Hand Protection	WEAR PROTECTIVE GLOVES EYE PROTECTION FACE PROTECTION
Respiratory Equipment	UNDER NORMAL CONDITIONS OF USE AND WHERE ADEQUATE VENTILATION IS AVAILABLE TO PREVENT BUILD UP OF EXHAUST VAPOUR, THIS MATERIAL SHOULD NOT REQUIRE SPECIAL ENGINEERING CONTROLS. HOWEVER, PROLONGED USE, OR HIGH TEMPERATURE OR OTHER CONDITIONS WHICH INCREASE EXPOSURE TO VAPOUR, SPECIAL CONTROLS CAN BE USED TO MINIMISE EXPOSURE TO PERSONNEL: A) INCREASE VENTILATION CAPACITY. B) PERSONNEL CAN USE AN APPROVED, APPROPRIATELY FITTED RESPIRATOR WITH OR CANISTERS AND PARTICULATE FILTERS. C) USE CLOSED SYSTEMS FOR TRANSFERRING AND USING. REFER TO SECTIONS 2 AND 7.
Hygiene Measures	GOOD PERSONAL HYGIENE PRACTICES ARE ALWAYS ADVISABLE, ESPECIALLY WHEN WORKING WITH THIS PRODUCT. DO NOT EAT, DRINK OR SMOKE DURING USE. REMOVE AND WASH CONTAMINATED CLOTHING BEFORE RE-USE.
Engineering Measures	PROVIDE ADEQUATE VENTILATION.
Skin Protection	WEAR PROTECTIVE CLOTHING TO REDUCE THE RISK OF SKIN AND EYE CONTACT.
Personal Protection	AVOID INHALATION OF THE PRODUCT. AVOID CONTACT WITH SKIN AND EYES.
Other Protection	WEAR SUITABLE PROTECTION TO AVOID CONTACT WITH SKIN AND EYES. DO NOT INHALE VAPOUR.
Process Conditions	ENSURE AREA IS WELL VENTILATED. AVOID VAPOUR INHALATION. SAFETY SHOWER & EYE BATH.
Environmental Exposure Controls	AVOID DISCHARGING INTO DRAINAGE WATER. ONLY ELIMINATE BY AUTHORISED COMPANIES.
SECTION 9: PHYSICAL & CHEMICAL PROPERTIES	
9.1 Physical & Chemical Properties	
Appearance	MOBILE OILY LIQUID
Colour	YELLOW BROWN – DARK
Odour	CHARACTERISTIC.
Flash Point (°C)	90°C
Refractive Index	1.529 – 1.537
Solubility in Water @ 20°C	INSOLUBLE IN WATER.
9.2 Other Information	
9.2.1 Information with regard to physical hazard classes	NO DATA.
9.2.2 Other safety characteristics	VOC CONTENT: 6.0423
SECTION 10: STABILITY & REACTIVITY	
10.1 Reactivity	PRESENTS NO SIGNIFICANT REACTIVITY HAZARDS, BY ITSELF. STABLE ON CONTACT WITH WATER AT ROOM TEMPERATURE AND STORAGE CONDITIONS AND RECOMMENDED USE.
10.2 Chemical Stability	STABLE UNDER SUGGESTED STORAGE CONDITIONS.
10.3 Possibility of hazardous reactions	NOT EXPECTED UNDER NORMAL CONDITIONS OF USE
10.4 Conditions to avoid	KEEP AWAY FROM HEAT, HOT SURFACES, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES.



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	PRODUCT IN OPEN CONTAINERS FOR LONG PERIODS SO AS TO PREVENT PRODUCT-DETERIORATION
10.5 INCOMPATIBLE MATERIALS	AVOID CONTACT WITH STRONG ACIDS, ALKALIS OR OXIDISING AGENTS
10.6 HAZARDOUS DECOMPOSITION PRODUCTS	NOT EXPECTED UNDER NORMAL TEMPERATURE CONDITIONS AND RECOMMENDED USE. THERMAL DECOMPOSITION MAY RELEASE/FORM OXIDES OF CARBON (CARBON MONOXIDE, CARBON DIOXIDE), TOXIC GASES.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 TOXICOLOGICAL EFFECTS

	THE FOLLOWING VALUES ARE CALCULATED BASED ON CHAPTER 3 OF THE GHS DOCUMENT
	BENZYL BENZOATE ORALLD50:1MOUSE 3253 MG/KG AVE 2 (RELIABLE WITH RESTRICTIONS) 2000 MG/KG FEMALE 1 (RELIABLE WITHOUT RESTRICTIONS)
	LINALOOL ORALLD50:2.790 MG/KG DERMALD50:5.610 MG/KG
ACUTE TOXICITY	CINNAMAL (CINNAMIC ALDEHYDE) ORALLD50:1GUINEA PIG 3400 MG/KG FEMALE AVE 2 (RELIABLE WITH RESTRICTIONS) 2000 MG/KG PIG 3400 MG/KG FEMALE AVE 4 (NOT ASSIGNABLE) MOUSE 2225 MG/KG 2 (RELIABLE WITH RESTRICTIONS) 1500 MG/KG 45 AT 2220 MG/KG FEMALE AVE 2 (RELIABLE WITH RESTRICTIONS) 1500 MG/KG 2 (RELIABLE WITH RESTRICTIONS) 3350 MG/KG 2 (RELIABLE WITH RESTRICTIONS) 1500 MG/KG 3350 MG/KG 4 (NOT ASSIGNABLE) DERMALD50:>2000 MG/KG
SKIN IRRITATION	CLASSIFICATION BASED ON DATA AVAILABLE FOR INGREDIENTS CAUSES MILD SKIN IRRITATION
EYE DAMAGE OR IRRITATION	CLASSIFICATION BASED ON DATA AVAILABLE FOR INGREDIENTS CAUSES SERIOUS EYE IRRITATION
RESPIRATORY OR SKIN SENSITIVITY	CAUSES AN ALLERGIC SKIN REACTION.
GERM CELL MUTAGENICITY	MAY CAUSE GENETIC DEFECTS SAFROLE – MUTA. 2
CARCINOGENICITY	CONTAINS A KNOWN OR SUSPECTED CARCINOGEN. CLASSIFICATION BASED ON DATA AVAILABLE FOR INGREDIENTS SAFROLE – CARC. 1B
REPRODUCTIVE TOXICITY	THE TABLE BELOW INDICATES INGREDIENTS ABOVE THE CUT-OFF THRESHOLD WHICH ARE LISTED AS REPRODUCTIVE TOXINS. PARACYMENE – REP. 2
STOCHASTIC SINGLE EXPOSURE	NO DATA.
STOCHASTIC REPEATED EXPOSURE	NO DATA.
ASPIRATION HAZARD	NO DATA.
11.2 INFORMATION ON OTHER HAZARDS	NO DATA.

SECTION 12 ECOLOGICAL INFORMATION

12.1 TOXICITY	TOXIC TO AQUATIC LIFE TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS CONTAINS 1.877 % OF COMPONENTS WITH UNKNOWN HAZARDS TO THE AQUATIC ENVIRONMENT
12.2 PERSISTENCE & DEGRADABILITY	NO ADDITIONAL DATA AVAILABLE.
12.3 BIO-ACCUMULATIVE POTENTIAL	EUGENOL



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	<div>PARTITION COEFFICIENT: 2.49</div> <div>BENZYL BENZOATE</div> <div>PARTITION COEFFICIENT: 3.97</div> <div>LINALOOL</div> <div>PARTITION COEFFICIENT: 2.97</div> <div>CINNAMAL (CINNAMIC ALDEHYDE)</div> <div>PARTITION COEFFICIENT: 1.90</div> <div>ALPHA PINENE</div> <div>PARTITION COEFFICIENT: 4.83</div> <div>SAFROLE</div> <div>PARTITION COEFFICIENT: 3.45</div> <div>PARACYME</div> <div>PARTITION COEFFICIENT: 4.10</div> <div>D-LIMONENE</div> <div>PARTITION COEFFICIENT: 4.32 / 4.57</div> <div>BETA PINENE</div> <div>PARTITION COEFFICIENT: 4.116</div> <div>CAMPHERE</div> <div>PARTITION COEFFICIENT: 4.22</div> <div>MYRCENE</div> <div>PARTITION COEFFICIENT: 4.33</div>
12.4 MOBILITY IN SOIL	NO ADDITIONAL DATA AVAILABLE
12.5 RESULTS OF PBT & VPVB ASSESSMENT	NO ADDITIONAL DATA AVAILABLE
12.6 ENDOCRINE DISRUPTING PROPERTIES	NO ADDITIONAL DATA AVAILABLE
12.7 OTHER ADVERSE EFFECTS	NO ADDITIONAL DATA AVAILABLE
SECTION 13: DISPOSAL INFORMATION	
13.1 WASTE TREATMENT METHODS	<div>DO NOT ALLOW ENTRY INTO DRAINS OR WATERWAYS</div> <div>WASTE: WASTE MANAGEMENT IS CARRIED OUT WITHOUT ENDANGERING HUMAN HEALTH, THE ENVIRONMENT AND, IN PARTICULAR WITHOUT RISK TO WATER, AIR, SOIL, PLANTS OR ANIMALS. RECYCLE OR DISPOSE OF WASTE IN COMPLIANCE WITH CURRENT LEGISLATION, PROVIDED BY THE CERTIFIED COLLECTOR OR COMPANY. DO NOT CONTAMINATE THE GROUND OR WATER WITH WASTE. DO NOT DISPOSE OF WASTE IN THE ENVIRONMENT.</div> <div>SOILED PACKAGING: EMPTY CONTAINER COMPLETELY. KEEP LABEL(S) ON CONTAINER. DISPOSE OF VIA A CERTIFIED DISPOSAL CONTRACTOR.</div>



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LEGISLATION	
EU DIRECTIVES	REGULATION (EC) NO 2020/878 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 15 DECEMBER 2006. CONCERNING THE REGISTRATION, EVALUATION, AUTHORIZATION & RESTRICTION OF CHEMICALS (REACH), ESTABLISHING A EUROPEAN CHEMICALS AGENCY, AMENDING COUNCIL DIRECTIVE 1999/45/EC AND REPEALING COUNCIL REGULATION (EEC) NO793/93 & COMMISSION REGULATION (EC) NO1488/94 AS WELL AS COUNCIL DIRECTIVE 76/769/EEC & COMMISSION DIRECTIVE 91/155/ECC, 93/67/ECC, 93/105/EEC & 2000/21/EC (INCLUDING AMENDMENTS).
STATUTORY INSTRUMENTS	THE CHEMICALS (HAZARD INFORMATION & PACKAGING FOR SUPPLY REGULATIONS) (NO 716).
APPROVED CODE OF PRACTICE	CLASSIFICATION & LABELLING OF SUBSTANCES & PREPARATIONS DANGEROUS FOR TRANSPORT. SHEETS FOR SUBSTANCES & PREPARATIONS.
GUIDANCE NOTES	WORKPLACE EXPOSURE LIMITS EH40. CHIP FOR EVERYONE HSG 108.
15.2 CHEMICAL SAFETY ASSESSMENT	-

SECTION 16: OTHER INFORMATION	
HAZARD AND PRECAUTIONARY STATEMENTS IN HAZARD AND PRECAUTIONARY STATEMENTS IN	H226-F LAMMABLE LIQUID AND VAPOR H227-C OMBUSTIBLE LIQUID H228-F LAMMABLE SOLID H302-H ARMFUL IF SWALLOWED H303-M AY BE HARMFUL IF SWALLOWED H304-M AY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS H312-H ARMFUL IN CONTACT WITH SKIN H315-C AUSES SKIN IRRITATION H316-C AUSES MILD SKIN IRRITATION H317-M AY CAUSE AN ALLERGIC SKIN REACTION H319-C AUSES SERIOUS EYE IRRITATION H320-C AUSES EYE IRRITATION H331-T OXIC IF INHALED H335-M AY CAUSE RESPIRATORY IRRITATION H341-S USPECTED OF CAUSING GENETIC DEFECTS H350-M AY CAUSE CANCER H361-S USPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD H400-V ERY TOXIC TO AQUATIC LIFE H401-T OXIC TO AQUATIC LIFE H402-H ARMFUL TO AQUATIC LIFE H410-V ERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS H411-T OXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS H412-H ARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS H413-M AY CAUSE LONG LASTING HARMFUL EFFECTS TO AQUATIC LIFE
TRAINING INSTRUCTIONS: REFER TO POSSIBLE HAZARD BEFORE USE OF THIS PRODUCT.	
ABBREVIATIONS & ACRONYMS:	
MSDS	MATERIAL SAFETY DATA SHEET
INCI	INTERNATIONAL NOMENCLATURE OF COSMETIC INGREDIENTS.
CAS	CHEMICAL ABSTRACT SERVICE.
IMDG	INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS.
ADR	ACCORD EUROPEAN SUR LE TRANSPORT DES MARCHANDISES DANGEREUSES PAR ROUTE. AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD.
RID	INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY RAIL.
ICAO	INTERNATIONAL CIVIL AVIATION ORGANIZATION.
ADN	INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS.
GHS	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION & LABELLING OF CHEMICALS.



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TREND	ARD	TRANSPORT	EMERGENCY	ARD
S T	S T	S T	S T	S T
SPECIFIC TARGET ORGAN TOXICITY.				

DOCUMENTATION	
DATE	CHANGE DESCRIPTION
10TH APRIL 2018	DATA LAUNCH
OCTOBER 2020	REVIEW
2021	REVIEW
JANUARY 2023	REVIEW
2ND FEBRUARY 2024	CHANGES IN SECTION 11, 12, 14.