

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	OREGANO, ESSENTIAL OIL				
BIOLOGICAL DEFINITION	ORIGANUM VULGARE OIL IS THE VOLATILE OIL OBTAINED FROM THE WHOLE PLANT OF THE WILD MARJORAM, ORIGANUM VULGARE L., LABIATAE.				
INCI NAME	ORIGANUM VULGARE OIL				
SYNONYMS & TRADE NAMES	N/A				
CAS-No	84012-24-8	EC No.	281-670-3	EINECS No.	281-670-3
1.2 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET					
COMPANY ADDRESS	MOV HERBS				
EMAIL	TECHNICALCREW@MOVHERBS.COM				
1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET					
EMERGENCY CONTACTS					

HERBS

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)
 ASPIRATION HAZARD CATEGORY 1 - (H304)
 ACUTE TOXICITY - ORAL CATEGORY 4 - (H302)
 SKIN CORROSION/IRRITATION CATEGORY 2 - (H315)
 SERIOUS EYE DAMAGE/EYE IRRITATION CATEGORY 2 - (H319)
 SKIN SENSITIZATION CATEGORY 1B - (H317)
 REPRODUCTIVE TOXICITY CATEGORY 2 - (H361)
 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 CARVACROL, PARA-CYMENE, GAMMA-TERPINENE, LINALOOL

HAZARDS STATEMENT

H302 - HARMFUL IF SWALLOWED
 H304 - MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS
 H315 - CAUSES SKIN IRRITATION
 H317 - MAY CAUSE AN ALLERGIC SKIN REACTION
 H319 - CAUSES SERIOUS EYE IRRITATION
 H361 - SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD
 H411 - TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS
 EUH208 - CONTAINS ALPHA-PINENE, CARYOPHYLLENE, BETA-PINENE, D-LIMONENE, EUCALYPTOL MAY PRODUCE AN ALLERGIC REACTION.

PRECAUTIONARY STATEMENTS

P280 - WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION
 P202 - DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD
 P263 - AVOID CONTACT DURING PREGNANCY/WHILE NURSING
 P308 + P313 - IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION
 P301 + P310 - IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN
 P331 - DO NOT INDUCE VOMITING
 P302 + P352 - IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER
 P333 + P313 - IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION
 P102 - KEEP OUT OF REACH OF CHILDREN
 P305 + P351 + P338 - IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING
 P337 + P313 - IF EYE IRRITATION PERSISTS: 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

P264 - WASH HANDS AND EXPOSED SKIN THOROUGHLY AFTER HANDLING.
 P330 - RINSE MOUTH.
 P332+P313 - IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/ATTENTION.

SECTION 16 (OTHER INFORMATION): RISK & SAFETY PHRASES IN FULL.

2.3 OTHER HAZARDS

ADVERSE PHYSIO-CHEMICAL PROPERTIES TOXIC TO AQUATIC LIFE. COMBUSTIBLE LIQUID

ADVERSE EFFECTS ON HUMAN HEALTH NO DATA.

PBT OR VPVB ACCORDING TO ANNEX XIII PRODUCT FAILS TO MEET PBT/VPVB CRITERIA.

SECTION 3: COMPOSITION OF INGREDIENTS

3.2 MIXTURES	<p>70.0 – <80.0% CARVACROL CAS No: 499-75-2 EC No: 207-889-6 CLASSIFICATION (EC 1272/2008) SKIN SENS. 1B (H317) (EFFA) EYE IRRIT. 2 (H319) (EFFA) SKIN IRRIT. 2 (H315) (EFFA) ACUTE TOX. 4 (H302) (EFFA) AQUATIC ACUTE 3 (H402) (EFFA)</p>
	<p>10.0 – <20.0% PARA-CYMENE CAS No: 99-87-6 EC No: 202-796-7 CLASSIFICATION (EC 1272/2008) REP TOX. 2 (H361), AQUATIC ACUTE 2 (H401), SKIN IRRIT. 3 (H316), AQUATIC CHRONIC 2 (H411), ASP. TOX. 1 (H304), ACUTE TOX. 5 (H303), FLAM. LIQ. 3 (H226)</p>
	<p>1.0 – <10.0% GAMMA-TERPINENE CAS No: 99-85-4 EC No: 202-794-6 CLASSIFICATION (EC 1272/2008) REP 2 (H361), FLAM. LIQ. 3, ASPIR HAZ. 1 (H304), ACUTE TOX 5 (H303), SKIN IRRIT. 3 (H316)</p>
	<p>1.0 – <10.0% BETA-PINENE CAS No: 127-91-3 EC No: 204-872-5 CLASSIFICATION (EC 1272/2008) ACUTE AQUATIC 1 (H400) (EFFA) CHRONIC AQUATIC 1 (H410) (EFFA) SKIN SENS. 1 (H317) (EFFA) SKIN IRRIT. 2 (H315) (EFFA) ASP. TOX. 1 (H304) (EFFA) FLAM. LIQ. 3 (H226) (EFFA)</p>
	<p>1.0 - <10.0% BETA-CARYOPHYLLENE CAS No: 87-44-5 EC No: 201-746-1 CLASSIFICATION (EC 1272/2008) SKIN SENS. 1B (H317) (EFFA) ASP. TOX. 1 (H304) (EFFA) CHRONIC AQUATIC 4 (H413) (EFFA)</p>
	<p>0.1 - <1.0% MYRCENE CAS No: 123-35-3 EC No: 204-622-5 CLASSIFICATION (EC 1272/2008) EYE IRRIT. 2 (H319) (EFFA) SKIN IRRIT. 2 (H315) (EFFA) ASP. TOX. 1 (H304) (EFFA) FLAM. LIQUID 3 (H226) (EFFA) ACUTE AQUATIC 1 (H400) (EFFA) CHRONIC AQUATIC 2 (H411) (EFFA)</p>
	<p>1.0 - <10.0% ALPHA-PINENE CAS No: 80-56-8 EC No: 201-291-9 CLASSIFICATION (EC 1272/2008) ACUTE AQUATIC 1 (H400) (EFFA) CHRONIC AQUATIC 1 (H410) (EFFA) ACUTE TOX. 4 (H302) (EFFA) SKIN SENS. 1B (H317) (EFFA) SKIN IRRIT. 2 (H315) (EFFA) ASP. TOX. 1 (H304) (EFFA) FLAM. LIQ. 3 (H226) (EFFA)</p>
	<p>1.0 - <10.0% LINALOOL CAS No: 78-70-6 EC No: 201-134-4 CLASSIFICATION (EC 1272/2008) AQUATIC ACUTE 3 (H402) (EFFA) EYE IRRIT. 2 (H319) (EFFA) SKIN IRRIT. 2 (H315) (EFFA) ACUTE TOX. 5 (H303) (EFFA) FLAM. LIQ. 4 (H227) (EFFA) SKIN SENS. 1B (H317) (EFFA)</p>
	<p>0.1 - <1.0% D-LIMONENE CAS No: 5989-27-5 EC No: 227-813-5 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 (H226) (EFFA) SKIN IRRIT. 2 (H315) (EFFA) SKIN SENS. 1B (H317) (EFFA) ASP. TOX. 1 (H304) (EFFA) AQUATIC ACUTE 1 (H400) (EFFA) AQUATIC CHRONIC 3 (H412) (EFFA)</p>
	<p>0.1 - <1.0% 1,8-CINEOL CAS No: 470-82-6 EC No: 207-431-5 CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 3 (H316) (EFFA) ACUTE TOX. 5 (H303) (EFFA) FLAM. LIQ. 3 (H226) (EFFA) SKIN SENS. 1B (H317) (EFFA)</p>
<p>0.1 - <1.0% 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 CHRONIC 1 (H410) AQUATIC ACUTE 1 (H400)</p>	

SECTION 4: FIRST AID MEASURES

4.1	
DESCRIPTION OF FIRST AID MEASURES	
GENERAL INFORMATION	ALWAYS REMOVE CONTAMINATED CLOTHING IMMEDIATELY.
INHALATION	ASPIRATION INTO LUNGS CAN PRODUCE SEVERE LUNG DAMAGE. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION IMMEDIATELY. REMOVE TO FRESH AIR. AVOID DIRECT CONTACT WITH SKIN. USE BARRIER TO GIVE MOUTH-TO-MOUTH RESUSCITATION. IF BREATHING IS DIFFICULT, (TRAINED PERSONNEL SHOULD) GIVE OXYGEN. GET IMMEDIATE MEDICAL ATTENTION. DELAYED PULMONARY EDEMA MAY OCCUR.
INGESTION	DO NOT INDUCE VOMITING. RINSE MOUTH. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION. GET IMMEDIATE MEDICAL ATTENTION
SKIN CONTACT	REMOVE CONTAMINATED CLOTHES. WASH THOROUGHLY WITH SOAP AND WATER. CONTACT PHYSICIAN IF IRRITATION PERSISTS.
EYE CONTACT	RINSE IMMEDIATELY WITH PLENTY OF WATER, ALSO UNDER THE EYELIDS, FOR AT LEAST 15 MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. KEEP EYE WIDE OPEN WHILE RINSING. DO NOT RUB AFFECTED AREA. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS AND PERSISTS.
4.2	
MOST IMPORTANT SYMPTOMS & EFFECTS (ACUTE &	ITCHING. RASHES. HIVES. DIFFICULTY IN BREATHING. COUGHING AND/ OR WHEEZING. DIZZINESS. MAY CAUSE REDNESS AND TEARING OF THE EYES. BURNING SENSATION.

DELAYED)	
4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION OR SPECIAL TREATMENT REQUIRED	MAY CAUSE SENSITIZATION IN SUSCEPTIBLE PERSONS. TREAT SYMPTOMATICALLY. BECAUSE OF THE DANGER OF ASPIRATION, EMESIS OR GASTRIC LAVAGE SHOULD NOT BE EMPLOYED UNLESS THE RISK IS JUSTIFIED BY THE PRESENCE OF ADDITIONAL TOXIC SUBSTANCES.

SECTION 5: FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MATERIAL	FOAM, CO ₂ , DRY CHEMICAL POWDER.
5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR 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	SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND APPROPRIATE PROTECTIVE CLOTHING.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS	ENSURE ADEQUATE VENTILATION OF THE WORKING AREA, EVACUATE PERSONNEL TO SAFE AREA, WEAR SUITABLE PROTECTIVE EQUIPMENT. NO SMOKING, SPARKS, FLAMES OR OTHER SOURCES OF IGNITION NEAR SPILLAGE. AVOID CONTACT WITH SKIN, EYES AND CLOTHING.
6.2 ENVIRONMENTAL PRECAUTIONS	DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY GUIDELINES.
6.3 METHODS & MATERIAL FOR CONTAINMENT AND CLEANING UP	ABSORB WITH INERT, NON-COMBUSTIBLE, INORGANIC ABSORBENT MATERIAL (E.G. SAND, EARTH, DIATOMACEOUS EARTH, VERMICULITE). SWEEP UP AND REMOVE TO AN APPROVED DISPOSAL CONTAINER. DO NOT ABSORB IN SAWDUST OR OTHER COMBUSTIBLE ABSORBENTS. FOR ANY CONCERN RELATED TO DISPOSAL CONSULT SECTION 13.
6.4 REFERENCES TO OTHER SECTIONS	REFER & CONSIDER SECTION 8. REFER & CONSIDER SECTION 13.

SECTION 7: HANDLING & STORAGE

7.1 PRECAUTIONS FOR SAFE-HANDLING	ADVICE ON SAFE HANDLING HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE. AVOID CONTACT WITH SKIN, EYES OR CLOTHING. ENSURE ADEQUATE VENTILATION. IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT. DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE. REMOVE CONTAMINATED CLOTHING AND SHOES. GENERAL HYGIENE CONSIDERATIONS DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. WASH HANDS BEFORE BREAKS AND IMMEDIATELY AFTER HANDLING THE PRODUCT. WEAR SUITABLE GLOVES AND EYE/FACE PROTECTION. AVOID CONTACT WITH SKIN, EYES OR CLOTHING.
7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES	KEEP CONTAINERS TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED PLACE. KEEP OUT OF THE REACH OF CHILDREN. STORE LOCKED UP. STORE AWAY FROM OTHER MATERIALS.
7.3 SPECIFIC END USE(S)	NO DATA.

SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1 CONTROL PARAMETERS	PARA-CYMENE CAS No: 99-87-6 <ul style="list-style-type: none"> DENAMRK: TWA: 25 PPM, TWA: 135 MG/M³ ESTONIA: STEL: 35 PPM, STEL: 190 MG/M³; TWA: 25 PPM, TWA: 140 MG/M³ FRANCE: TWA: 150 MG/M³, TWA: 1000 MG/M³; STEL: 1500 MG/M³ LATVIA: TWA: 10MG/M³ ALPHA-PINENE CAS No: 80-56-8 <ul style="list-style-type: none"> ESTONIA: STEL: 50 PPM, STEL: 300MG/M³; TWA 25 PPM, TWA: 150 MG/M³ FRANCE: TWA: 1000 MG/M³; STEL: 1500 MG/M³
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- NORWAY: TWA: 25 PPM, TWA: 140 MG/M³ SKIN STEL: 37.5 PPM, STEL: 175 MG/M³
- PORTUGAL: TWA: 20 PPM
- SPAIN: TWA: 20 PPM, TWA: 113 MG/M³
- SWITZERLAND: SKIN STEL: 40 PPM, STEL: 224 MG/M³; TWA: 20 PPM, TWA: 112 MG/M³

BETA-PINENE CAS No: 127-91-3

- ESTONIA: STEL: 50 PPM, STEL: 300 MG/M³; TWA: 25 PPM, TWA: 150 MG/M³
- FRANCE: TWA: 1000 MG/M³; STEL: 1500 MG/M³
- NORWAY: TWA: 25 PPM, TWA: 140 MG/M³; STEL: 37.5 PPM, STEL: 175 MG/M³
- PORTUGAL: TWA: 20 PPM
- SPAIN: TWA: 20 PPM, TWA: 113 MG/M³
- SWITZERLAND: SKIN STEL: 40 PPM, STEL: 224 MG/M³; TWA: 20 PPM, TWA: 112 MG/M³

D-LIMONENE CAS No: 5989-27-5

- FINLAND: TWA: 25 PPM, TWA: 140 MG/M³; STEL: 50 PPM, STEL: 280 MG/M³
- FRANCE: TWA: 1000 MG/M³; STEL: 1500 MG/M³
- GERMANY DFG: TWA: 5 PPM, TWA: 28 MG/M³; CEILING / PEAK: 20 PPM, CEILING / PEAK: 112 MG/M³ SKIN
- NORWAY: TWA: 25 PPM, TWA: 140 MG/M³; STEL: 37.5 PPM, STEL: 175 MG/M³
- POLAND: S* TWA: 30 PPM, TWA: 168 MG/M³
- SWITZERLAND: STEL: 14 PPM, STEL: 80 MG/M³; TWA: 7 PPM, TWA: 40 MG/M³

MYRCENE CAS No: 123-35-3

- ESTONIA: STEL: 500 MG/M³; TWA: 350 MG/M³
- FRANCE: TWA: 1000 MG/M³; STEL: 1500 MG/M³
- NORWAY: TWA: 40 PPM, TWA: 275 MG/M³; STEL: 60 PPM, STEL: 343.75 MG/M³
- ROMANIA: TWA: 700 MG/M³; STEL: 1000 MG/M³

GAMMA-TERPINENE CAS No: 99-85-4

- FRANCE: TWA: 1000 MG/M³; STEL: 1500 MG/M³

ALPHA-PHELLANDRENE CAS No: 99-83-2

- FRANCE: TWA: 1000 MG/M³; STEL: 1500 MG/M³

BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS

THIS PRODUCT, AS SUPPLIED, DOES NOT CONTAIN ANY HAZARDOUS MATERIALS WITH BIOLOGICAL LIMITS ESTABLISHED BY THE REGION SPECIFIC REGULATORY BODIES.

DERIVED NO EFFECT LEVEL (DNEL)

NO INFORMATION AVAILABLE.

PREDICTED NO EFFECT CONCENTRATION (PNEC)

NO INFORMATION AVAILABLE.

8.2

EXPOSURE CONTROLS



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 EXCESSIVE VAPOUR, THIS MATERIAL SHOULD NOT REQUIRE SPECIAL ENGINEERING CONTROLS. HOWEVER, IN CONDITIONS OF HIGH OR PROLONGED USE, OR HIGH TEMPERATURE OR OTHER CONDITIONS WHICH INCREASE EXPOSURE, THE FOLLOWING ENGINEERING CONTROLS CAN BE USED TO MINIMISE EXPOSURE TO PERSONNEL: A) INCREASE VENTILATION OF THE AREA WITH LOCAL EXHAUST VENTILATION. B) PERSONNEL CAN USE AN APPROVED, APPROPRIATELY FITTED RESPIRATOR WITH ORGANIC VAPOUR CARTRIDGE OR CANISTERS AND PARTICULATE FILTERS. C) USE CLOSED SYSTEMS FOR TRANSFERRING AND PROCESSING THIS MATERIAL. ALSO REFER TO SECTIONS 2 AND 7.

HYGIENE MEASURES	GOOD PERSONAL HYGIENE PRACTICES ARE ALWAYS ADVISABLE, ESPECIALLY WHEN WORKING WITH CHEMICALS / OILS.
ENGINEERING MEASURES	ADEQUATE VENTILLATION REQUIRED.
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 VAPOURS.
PROCESS CONDITIONS	ENSURE AREA IS WELL VENTILATED. AVOID VAPOUR INHALATION. SAFETY SHOWER & EYE BATH.
ENVIROMENTAL EXPOSURE CONTROLS	AVOID DISCHARGING INTO DRAINAGE WATER.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

9.1 PHYSICAL & CHEMICAL PROPERTIES	
APPEARANCE	MOBILE LIQUID
COLOUR	ALMOST COLOURLESS TO YELLOW TO GREENISH-BROWN.
ODOUR	CHARACTERISTIC
RELATIVE DENSITY	0.940 – 0.962 @ 25°C
FLASH POINT (°C)	69°C
SOLUBILITY IN WATER @ 20 °C	NO DATA.
9.2 OTHER INFORMATION	NO ADDITIONAL DATA AVAILABLE.
9.2.1 INFORMATION WITH REGARD TO PHYSICAL HAZARD CLASSES	NO DATA.
9.2.2 OTHER SAFETY CHARACTERISTICS	NO DATA.

SECTION 10: STABILITY & REACTIVITY

10.1 REACTIVITY	NO HAZARDOUS REACTIONS IF STORED AND HANDLED AS PRESCRIBED / INDICATED.
10.2 CHEMICAL STABILITY	STABLE UNDER SUGGESTED STORAGE CONDITIONS (<15°C).
10.3 POSSIBILITY OF HAZARDOUS REACTIONS	NONE UNDER NORMAL PROCESSING.
10.4 CONDITIONS TO AVOID	STORAGE AT HIGH TEMPERATURES. DO NOT STORE ABOVE 15°C OR IN DIRECT SUNLIGHT.
10.5 INCOMPATIBLE MATERIALS	AVOID CONTACT WITH STRONG ACIDS, ALKALIS OR OXIDISING AGENTS.
10.6 HAZARDOUS DECOMPOSITION PRODUCTS	THIS PRODUCT DOES NOT DECOMPOSE UNDER NORMAL CONDITIONS. UNDER FIRE CONDITIONS THE PRODUCT WILL PRODUCE A MIXTURE OF IRRITATING FUMES & SMOKE & CARBON MONOXIDE.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 TOXICOLOGICAL EFFECTS	
ACUTE TOXICITY	THE FOLLOWING VALUES ARE CALCULATED BASED ON CHAPTER 3.1 OF THE GHS DOCUMENT

	<ul style="list-style-type: none"> ATEMIX (ORAL) 1,002.30 MG/KG <p>UNKNOWN ACUTE TOXICITY</p> <ul style="list-style-type: none"> 3.2717 % OF THE MIXTURE CONSISTS OF INGREDIENT(S) OF UNKNOWN ACUTE ORAL <p>CARVACROL ORAL LD50: = 810 MG/KG (RAT)</p> <p>PARA-CYMENE ORAL LD50: 4.750 MG/KG (RAT) DERMAL LD50: >5.000 MG/KG (RABBIT) INHALATION LC50: >9.7 MG/L (RAT) 5HR</p> <p>GAMMA-TERPINENE ORAL LD50: 3.850 MG/KG (RAT)</p> <p>LINALOOL ORAL LD50: =2790 MG/KG (RAT) DERMAL LD50: =2000 MG/KG (RABBIT), =5610 MG/KG (RAT) INHALATION LC50: >20 MG/L</p> <p>ALPHA-PINENE ORAL LD50: 500 MG/KG (RAT) DERMAL LD50: >5000 MG/KG (RAT)</p> <p>BETA-PINENE ORAL LD50: = 4700 MG/KG (RAT), >5000 MG/KG (RAT) DERMAL LD50: >5000 MG/KG (RABBIT)</p> <p>D-LIMONENE DERMAL LD50: > G/KG (RABBIT)</p> <p>EUCALYPTOL ORAL LD50: 2480 MG/KG (RAT)</p> <p>ALPHA-PHELLANDRENE ORAL LD50: =5700 MG/KG (RAT)</p> <p>MYRCENE ORAL LD50: >5 G/KG (RAT) DERMAL LD50: >5 G/KG (RABBIT)</p>
SKIN IRRITATION	MAY CAUSE SENSITIZATION BY SKIN CONTACT. SPECIFIC TEST DATA FOR THE SUBSTANCE OR MIXTURE IS NOT AVAILABLE. REPEATED OR PROLONGED SKIN CONTACT MAY CAUSE ALLERGIC REACTIONS WITH SUSCEPTIBLE PERSONS. (BASED ON COMPONENTS). REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING. CAUSES SKIN IRRITATION.
EYE DAMAGE OR IRRITATION	SPECIFIC TEST DATA FOR THE SUBSTANCE OR MIXTURE IS NOT AVAILABLE. MAY CAUSE IRRITATION. CAUSES SERIOUS EYE IRRITATION. (BASED ON COMPONENTS). MAY CAUSE REDNESS, ITCHING, AND PAIN.
RESPIRATORY OR SKIN SENSITIVITY	SPECIFIC TEST DATA FOR THE SUBSTANCE OR MIXTURE IS NOT AVAILABLE. ASPIRATION INTO LUNGS CAN PRODUCE SEVERE LUNG DAMAGE. MAY CAUSE PULMONARY EDEMA. PULMONARY EDEMA CAN BE FATAL. MAY CAUSE IRRITATION OF RESPIRATORY TRACT
GERM CELL MUTAGENICITY	NO ADDITIONAL DATA AVAILABLE.
CARCINOGENICITY	NO ADDITIONAL DATA AVAILABLE.
REPRODUCTIVE TOXICITY	CONTAINS A KNOWN OR SUSPECTED REPRODUCTIVE TOXIN. CLASSIFICATION BASED ON DATA AVAILABLE FOR INGREDIENTS. SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD. EUROPEAN UNION PARA-CYMENE REP. 2 GAMMA-TERPINENE REP. 2
STOT – SINGLE EXPOSURE	NO ADDITIONAL DATA AVAILABLE.
STOT – REPEATED EXPOSURE	NO ADDITIONAL DATA AVAILABLE.
ASPIRATION HAZARD	MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

11.2 INFORMATION ON OTHER HAZARDS	NO ADDITIONAL DATA AVAILABLE.
SECTION 12: ECOLOGICAL INFORMATION	
12.1 TOXICITY	<p>ECOTOXICITY TOXIC TO AQUATIC LIFE. TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.</p> <p>UNKNOWN AQUATIC TOXICITY CONTAINS 0.1826 % OF COMPONENTS WITH UNKNOWN HAZARDS TO THE AQUATIC ENVIRONMENT.</p> <p>PARA-CYMENE FISH: 96HR LC50 – 48 MG/L (CYPRINODON VARIEGATUS) CRUSTACEA: 72HR ErC50 – 4.03 MG/L, NOErC – 1.4 MG/L (SCENEDESMUS CAPRICORNUTUM)</p> <p>LINALOOL ALGAE/AQUATIC PLANTS: 88.3: 96 H DESMODESMUS SUBSPICATUS MG/L EC50 FISH: 96HR LC50 – 27.8 MG/L (SALMO GAIRDNERI) CRUSTACEA: 48HR EC50 – 59 MG/L (DAPHNIA MAGNA)</p> <p>ALPHA-PINENE FISH: 0.28: 96 H PIMEPHALES PROMELAS MG/L LC50 STATIC CRUSTACEA: 41: 48 H DAPHNIA MAGNA MG/L LC50</p> <p>D-LIMONENE FISH: 96HR LC50 – 0.7 MG/L (PIMEPHALES PROMELAS) CRUSTACEA: 48HR EC50 – 0.4 MG/L (DAPHNIA MAGNA)</p> <p>EUCALYPTOL FISH: 96 HR LC50 FOR FRESHWATER FISH – 57 MG/L (ONCORHYNCHUS MYKISS) CRUSTACEA: 48HR EC50/LC50 – 100 MG/L (DAPHNIA MAGNA)</p>
12.2 PERSISTENCE & DEGRADABILITY	NO DATA.
12.3 BIO- ACCUMULATIVE POTENTIAL	NO DATA.
12.4 MOBILITY IN SOIL	NO DATA.
12.5 RESULTS OF PBT & VPVB ASSESSMENT	NO DATA.
12.6 ENDOCRINE DISRUPTING PROPERTIES	NO DATA.
12.7 OTHER ADVERSE EFFECTS	DO NOT ALLOW PRODUCT TO ENTER STREAMS, SEWERS OR OTHER WATERWAYS.
SECTION 13: DISPOSAL INFORMATION	
13.1 WASTE TREATMENT METHODS	<p>WASTE: WASTE MANAGEMENT IS CARRIED OUT WITHOUT ENDANGERING HUMAN HEALTH, WITHOUT HARMING THE ENVIRONMENT AND, IN PARTICULAR WITHOUT RISK TO WATER, AIR, SOIL, PLANTS OR ANIMALS. RECYCLE OR DISPOSE OF WASTE IN COMPLIANCE WITH CURRENT LEGISLATION, PREFERABLY VIA A CERTIFIED COLLECTOR OR COMPANY. DO NOT CONTAMINATE THE GROUND OR WATER WITH WASTE. DO NOT DISPOSE OF WASTE INTO THE ENVIRONMENT.</p> <p>SOILED PACKAGING: EMPTY CONTAINER COMPLETELY. KEEP LABEL(S) ON CONTAINER. DISPOSE OF VIA A CERTIFIED DISPOSAL CONTRACTOR.</p> <p>CONTAMINATED PACKAGING: DO NOT REUSE EMPTY CONTAINERS.</p>

SECTION 14: TRANSPORT INFORMATION

**14.1
TRANSPORT INFORMATION**

UN NUMBER

IATA: 3082
IMDG: 3082
RID/ADR: 3082

**14.2
UN SHIPPING NAME**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PARA-CYMENE)

**14.3
TRANSPORT HAZARD CLASS(ES)**

IATA
TRANSPORT HAZARD CLASS(ES) - 9
DESCRIPTION (PARA-CYMENE)
ENVIRONMENTAL HAZARD - YES
SPECIAL PRECAUTIONS FOR USER
SPECIAL PROVISIONS - A97, A158, A197
ERG CODE - 9L

IMDG
TRANSPORT HAZARD CLASS(ES) - 9
DESCRIPTION (PARA-CYMENE)
ENVIRONMENTAL HAZARD - YES
SPECIAL PRECAUTIONS FOR USER
SPECIAL PROVISIONS - 274, 335, 969
EMS-NO - F-A, S-F

RID
TRANSPORT HAZARD CLASS(ES) - 9
DESCRIPTION (PARA-CYMENE)
ENVIRONMENTAL HAZARD - YES
SPECIAL PRECAUTIONS FOR USER
SPECIAL PROVISIONS - NONE

ADR
TRANSPORT HAZARD CLASS(ES) - 9
DESCRIPTION (PARA-CYMENE)
ENVIRONMENTAL HAZARD - YES
SPECIAL PRECAUTIONS FOR USER
SPECIAL PROVISIONS - 274, 335, 375, 601
CLASSIFICATION CODE - M6
TUNNEL RESTRICTION CODE - (-)
TRANSPORT LABELS



**14.4
PACKING GROUP**

IATA: III
IMDG: III
RID/ADR: III

ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT

**14.5
ENVIROMENTAL HAZARDS**



**14.6
SPECIAL PRECAUTIONS FOR USER**

SEE SECTIONS 6 -8.

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 & THE IBC CODE.	IBC02
SECTION 15: REGULATORY INFORMATION	
15.1 PRODUCT SPECIFIC SAFETY, HEALTH & ENVIRONMENTAL REGULATIONS & LEGISLATION	
EU DIRECTIVES	REGULATION (EC) No 2020/878 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 18 TH DECEMBER 2006. CONCERNING THE REGISTRATION, EVALUATION, AUTHORIZATION & RESTRICTION OF CHEMICALS (REACH), ESTABLISHING A EUROPEAN CHEMICALS AGENCY, AMENDING 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). DANGEROUS SUBSTANCE CATEGORY PER SEVESO DIRECTIVE (2012/18/EU) E2 – HAZARDOUS TO THE AQUATIC ENVIRONMENT IN CATEGORY CHRONIC 2.
STATUTORY INSTRUMENTS	THE CHEMICALS (HAZARD INFORMATION & PACKAGING FOR SUPPLY REGULATIONS 2009 (S.I.2009 No 716). FRANCE OCCUPATIONAL ILLNESSES (R-463-3, FRANCE) D-LIMONENE: FRENCH RG NUMBER: RG 84 GERMANY WATER HAZARD CLASS (WGK) – STRONGLY HAZARDOUS TO WATER (WGK 3)
APPROVED CODE OF PRACTICE	CLASSIFICATION & LABELING OF SUBSTANCES & PREPARATIONS DANGEROUS FOR SUPPLY. SAFETY DATA SHEETS FOR SUBSTANCES & PREPARATIONS.
GUIDANCE NOTES	WORKPLACE EXPOSURE LIMITS EH40. CHIP FOR EVERYONE HSG 108.
15.2 CHEMICAL SAFETY ASSESSMENT	NO ADDITIONAL INFORMATION AVAILABLE.

SECTION 16: OTHER INFORMATION	
HAZARD AND/ OR PRECAUTIONARY STATEMENTS IN FULL	H226 - FLAMMABLE LIQUID AND VAPOR H227 - COMBUSTIBLE LIQUID H302 – HARMFUL IF SWALLOWED H303 - MAY BE HARMFUL IF SWALLOWED H304 - MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS H315 - CAUSES SKIN IRRITATION H316 - CAUSES MILD SKIN IRRITATION H317 - MAY CAUSE AN ALLERGIC SKIN REACTION H319 - CAUSES SERIOUS EYE IRRITATION H361 - SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD H400 - VERY TOXIC TO AQUATIC LIFE H401 - TOXIC TO AQUATIC LIFE H402 - HARMFUL 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 H413 - MAY CAUSE LONG LASTING HARMFUL EFFECTS TO AQUATIC LIFE LEG8 SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION TWA: TWA (TIME-WEIGHTED AVERAGE) STEL: STEL (SHORT TERM EXPOSURE LIMIT) CEILING: MAXIMUM LIMIT VALUE *: SKIN DESIGNATION

+ : SENSITIZERS

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 (EUROPEAN 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.
TREM CARD	TRANSPORT EMERGENCY CARD.
STOT	SPECIFIC TARGET ORGAN TOXICITY.

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DECEMBER 2020	REVIEW
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