





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	BLACK PEPPER, ESSENTIAL OIL				
BIOLOGICAL DEFINITION	THE VOLATILE OIL OBTAINED BY STEAM DISTILLATION FROM THE DRIED SLIGHTLY UNRIPE FRUITS OF PIPER NIGRUM L.				
INCI NAME	PIPER NIGRUM FRUIT OIL				
SYNONYMS & TRADE NAMES	-				
INTERNAL PRODUCT CODE	K0066				
CAS-No	84929-41-9	EC No.	284-524-7	EINECS No.	284-524-7
1.2 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET					
COMPANY ADDRESS	YouWish Venserweg 21M, 1112 AR Diemen, The Netherlands.				
EMAIL	contact@youwish.nl				
1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET					
EMERGENCY CONTACTS	+31 6 83295085				

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE		THE FULL TEXT FOR ALL HAZARD STATEMENTS IS DISPLAYED IN SECTION 16.
CLASSIFICATION (67/548/EEC)	NO ADDITIONAL DATA AVAILABLE.	
CLASSIFICATION (EU1272/2008)	PHYSICAL HAZARDS FLAM. LIQ. 3 - H226 HEALTH HAZARDS SKIN IRRIT. 2 - H315 EYE IRRIT. 2 - H319 SKIN SENS. 1 - H317 ASP. TOX. 1 - H304 ENVIRONMENTAL HAZARDS AQUATIC CHRONIC 2 - H411	
2.2 LABEL ELEMENTS		LABEL IN ACCORDANCE WITH REGULATION (EC) NO 1272/2008.
GHS LABEL	   	
SIGNAL WORD	DANGER.	
CONTAINS	(R)-P-MENTHA-1,8-DIENE, BETA PINENE, ALPHA PINENE, SABINENE, DELTA-3-CARENE, BETA BISABOLENE, A TERPINOLENE, NERAL, 1, 8 CINEOLE, GERANIAL	
HAZARDS STATEMENT	H226 FLAMMABLE LIQUID AND VAPOUR. 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. H411 TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.	
SIGNAL WORD	DANGER	
PRECAUTIONARY STATEMENTS	P210 KEEP AWAY FROM HEAT, HOT SURFACES, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES. NO SMOKING. P233 KEEP CONTAINER TIGHTLY CLOSED. P240 GROUND AND BOND CONTAINER AND RECEIVING EQUIPMENT. P241 USE EXPLOSION-PROOF ELECTRICAL EQUIPMENT. P242 USE NON-SPARKING TOOLS. P243 TAKE ACTION TO PREVENT STATIC DISCHARGES. P261 AVOID BREATHING VAPOUR/ SPRAY. P264 WASH CONTAMINATED SKIN THOROUGHLY AFTER HANDLING. P272 CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED OUT OF THE WORKPLACE. 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. 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. P305+P351+P338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. P321 SPECIFIC TREATMENT (SEE MEDICAL ADVICE ON THIS LABEL). 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. P337+P313 IF EYE IRRITATION PERSISTS: 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+P235 STORE IN A WELL-VENTILATED PLACE. KEEP COOL. P405 STORE LOCKED UP. P501 DISPOSE OF CONTENTS/ CONTAINER IN ACCORDANCE WITH NATIONAL REGULATIONS.	
SUPPLEMENTARY PRECAUTIONARY STATEMENTS	NONE.	
SECTION 16 (OTHER INFORMATION): RISK & SAFETY PHRASES IN FULL.		
2.3 OTHER HAZARDS		

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ADVERSE PHYSIO-CHEMICAL PROPERTIES	NO DATA.
ADVERSE EFFECTS ON HUMAN HEALTH	NO DATA.
PBT OR VPVB ACCORDING TO ANNEX XIII	NO DATA.

SECTION 3: COMPOSITION OF INGREDIENTS

3.1 SUBSTANCES	NOT APPLICABLE.
3.2 MIXTURES	<p>25.0 – 35.0% BETA CARYOPHYLLENE CAS-No.: 87-44-5 EC No.: 201-746-1 CLASSIFICATION (EC 1272/2008) SKIN SENS. 1B - H317, ASP. TOX. 1 - H304</p> <p>10.0 – 20.0% (R)-P-MENTHA-1,8-DIENE CAS-No.: 5989-27-5 EC No.: 227-813-5 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, SKIN IRRIT. 2 - H315, SKIN SENS. 1 - H317, ASP. TOX. 1 - H304, AQUATIC ACUTE 1 - H400, AQUATIC CHRONIC 3 - H412</p> <p>10.0 – 15.0% ALPHA PINENE CAS NUMBER: 80-56-8 EC NUMBER: 201-291-9 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, ACUTE TOX. 4 - H302, SKIN IRRIT. 2 - H315, SKIN SENS. 1 - H317, ASP. TOX. 1 - H304, AQUATIC ACUTE 1 - H400, AQUATIC CHRONIC 1 - H410</p> <p>10.0 – 15.0% BETA PINENE CAS NUMBER: 127-91-3 EC NUMBER: 242-060-2 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, SKIN IRRIT. 2 - H315, SKIN SENS. 1 - H317, ASP. TOX. 1 - H304, AQUATIC ACUTE 1 - H400, AQUATIC CHRONIC 1 - H410</p> <p>5.0 – 10.0% SABINENE CAS NUMBER: 3387-41-5 EC NUMBER: 222-212-4 CLASSIFICATION (EC 1272/2008) ACUTE TOX. 4 - H302</p> <p>5.0 – 10.0% DELTA-3-CARENE CAS NUMBER: 13466-78-9 EC NUMBER: 236-719-3 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, SKIN IRRIT. 2 - H315, SKIN SENS. 1 - H317, ASP. TOX. 1 - H304, AQUATIC ACUTE 1 - H400, AQUATIC CHRONIC 1 - H410</p> <p>1.0 – 5.0% ALPHA PHELLANDRENE CAS NUMBER: 99-83-2 EC NUMBER: 202-792-5 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, ASP. TOX. 1 - H304</p> <p>1.0 – 5.0% A-HUMULENE CAS NUMBER: 6753-98-6 EC NUMBER: 229-816-7 CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2 - H315, EYE IRRIT. 2 - H319, STOT SE 3 - H335</p> <p>1.0 – 5.0% BETA PHELLANDRENE CAS NUMBER: 555-10-2 EC NUMBER: 209-081-9 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, ASP. TOX. 1 - H304</p> <p>1.0 – 5.0% 7-METHYL-3-METHYLENEOCTA-1,6-DIENE CAS NUMBER: 123-35-3 EC NUMBER: 204-622-5 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, SKIN IRRIT. 2 - H315, EYE IRRIT. 2 - H319, ASP. TOX. 1 - H304, AQUATIC ACUTE 1 - H400, AQUATIC CHRONIC 1 - H410</p> <p>0.5 – 1.0% CARYOPHYLLENE OXIDE CAS NUMBER: 1139-30-6 EC NUMBER: 214-519-7 CLASSIFICATION (EC 1272/2008) AQUATIC CHRONIC 2 - H411</p> <p>0.5 – 1.0% A TERPINOLENE CAS NUMBER: 586-62-9 EC NUMBER: 209-578-0 CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2 - H315, EYE IRRIT. 2 - H319, SKIN SENS. 1 - H317, ASP. TOX. 1 - H304, AQUATIC CHRONIC 2 - H411</p> <p>0.5 – 1.0% BETA BISABOLENE CAS NUMBER: 495-61-4 CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2 - H315, SKIN SENS. 1 - H317, ASP. TOX. 1 - H304</p> <p>0.1 – 0.5% 1, 8 CINEOLE CAS NUMBER: 470-82-6 EC NUMBER: 207-431-5 CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2 - H315, EYE IRRIT. 2 - H319, SKIN SENS. 1 - H317</p> <p>0.1-0.5% NERAL CAS NUMBER: 106-26-3 EC NUMBER: 203-379-2 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3, H226, ASP. TOX. 1, H304, AQUATIC ACUTE 1, H400; AQUATIC CHRONIC 1, H410, SKIN SENS. 1, H317</p> <p>0.25 – 0.5% CAMPHENE CAS NUMBER: 79-92-5 EC NUMBER: 201-234-8 CLASSIFICATION (EC 1272/2008) FLAM. SOL. 1 - H228, EYE IRRIT. 2 - H319, AQUATIC ACUTE 1 - H400, AQUATIC CHRONIC 1 - H410</p>

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0.1-0.5% GERANIAL CAS NUMBER: 141-27-5 EC NUMBER: 205-476-5
 CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2 - H315, EYE IRRIT. 2 - H319, SKIN SENS. 1 - H317

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES	
GENERAL INFORMATION	ALWAYS REMOVE CONTAMINATED CLOTHING IMMEDIATELY.
INHALATION	GET MEDICAL ATTENTION IMMEDIATELY. REMOVE FROM EXPOSURE SITE TO FRESH AIR, KEEP AT REST, AND OBTAIN MEDICAL ATTENTION.
INGESTION	DO NOT INDUCE VOMITING! GET MEDICAL ATTENTION IMMEDIATELY. IMMEDIATELY CALL THE POISON CENTRE OR DOCTOR. RINSE MOUTH WITH WATER AND OBTAIN MEDICAL ATTENTION.
SKIN CONTACT	REMOVE CONTAMINATED CLOTHES. WASH THOROUGHLY WITH SOAP AND WATER. CONTACT PHYSICIAN IF IRRITATION PERSISTS.
EYE CONTACT	REMOVE ANY CONTACT LENSES AND OPEN EYELIDS WIDE APART. RINSE WITH WATER. CONTINUE TO RINSE FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.
4.2 MOST IMPORTANT SYMPTOMS & EFFECTS (ACUTE & DELAYED)	INGESTION: HARMFUL IF SWALLOWED. SKIN CONTACT: IRRITATING TO SKIN. EYE CONTACT: CAUSES SERIOUS EYE DAMAGE.
4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION OR SPECIAL TREATMENT REQUIRED	TREAT SYMPTOMATICALLY.

SECTION 5: FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MATERIAL	FOAM, CO2, DRY CHEMICAL POWDER. UNSUITABLE EXTINGUISHING MEDIA: WATER
5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	BURNING PRODUCES IRRITATING, TOXIC AND OBNOXIOUS FUMES
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. AVOID INHALATION.
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	REMOVE IGNITION SOURCES. PROVIDE ADEQUATE VENTILATION. AVOID EXCESSIVE INHALATION OF VAPOURS. CONTAIN SPILLAGE IMMEDIATELY BY USE OF SAND OR INERT POWDER. DISPOSE OF ACCORDING TO LOCAL REGULATIONS. COVER WITH AN INERT, INORGANIC, NON-COMBUSTIBLE ABSORBENT MATERIAL (E.G DRY-LIME, SAND, SODA ASH).
6.4 REFERENCES TO OTHER SECTIONS	REFER & CONSIDER SECTION 8. REFER & CONSIDER SECTION 13.

SECTION 7: HANDLING & STORAGE

7.1 PRECAUTIONS FOR SAFE-HANDLING	HANDLE IN ACCORDANCE WITH GOOD HYGIENE AND SAFETY PRACTICE. KEEP AWAY FROM HEAT, SPARKS, OPEN FLAMES AND HOT SURFACES. - NO SMOKING. USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. USE IN ACCORDANCE WITH GOOD MANUFACTURING AND INDUSTRIAL HYGIENE PRACTICES. USE IN AREAS WITH ADEQUATE VENTILATION DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.
7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES	STORAGE CLASS: FLAMMABLE LIQUID STORAGE. STORE ONLY IN THE ORIGINAL RECEPTACLE. KEEP CONTAINER TIGHTLY SEALED. KEEP IN COOL, DRY, VENTILATED STORAGE AND CLOSED CONTAINERS. KEEP AWAY FROM HEAT.
7.3 SPECIFIC END USE(S)	FLAVOURS, FRAGRANCES: USE IN ACCORDANCE WITH GOOD MANUFACTURING AND INDUSTRIAL HYGIENE PRACTICES.

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SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

(R)-P-MENTHA-1,8-DIENE (CAS: 5989-27-5)

DNEL

WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 33.3 MG/M³

GENERAL POPULATION - ORAL; LONG TERM SYSTEMIC EFFECTS: 4.76 MG/KG

PNEC

- STP; 1.8 MG/L
- SOIL; 0.262 MG/KG
- FRESH WATER; 0.0054 MG/L
- MARINE WATER; 0.00054 MG/L
- SEDIMENT (FRESHWATER); 1.32 MG/KG
- SEDIMENT (MARINEWATER); 0.13 MG/KG

ALPHA PINENE (CAS: 80-56-8)

DNEL

WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 3.8 MG/M³

WORKERS - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.54 BW/DAY, MG/KG

GENERAL POPULATION - INHALATION; LONG TERM SYSTEMIC EFFECTS: 0.67 MG/M³

GENERAL POPULATION - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.19 MG/KG, BW/DAY

GENERAL POPULATION - ORAL; LONG TERM SYSTEMIC EFFECTS: 0.19 MG/KG, BW/DAY

PNEC

- FRESH WATER; SHORT TERM 0.606 MG/L
- FRESH WATER, INTERMITTENT RELEASE; 3.03 MG/L
- MARINE WATER; SHORT TERM 0.061 MG/L
- INTERMITTENT RELEASE, MARINE WATER; 0.303 MG/L
- STP; SHORT TERM 0.2 MG/L
- SEDIMENT (FRESHWATER); SHORT TERM 1.57 MG/KG
- SEDIMENT (MARINEWATER); SHORT TERM 1.5.7 MG/KG
- SOIL; SHORT TERM 31.7 MG/KG

BETA PINENE (CAS: 127-91-3)

DNEL

WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 5.69 MG/M³

WORKERS - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.8 BW/DAY, MG/KG

GENERAL POPULATION - INHALATION; LONG TERM SYSTEMIC EFFECTS: 1 MG/M³

GENERAL POPULATION - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.3 MG/KG, BW/DAY

GENERAL POPULATION - ORAL; LONG TERM SYSTEMIC EFFECTS: 0.3 BW/DAY, MG/KG

PNEC

- FRESH WATER; SHORT TERM 1.004 MG/L
- INTERMITTENT RELEASE, FRESH WATER; 5.02 MG/L
- MARINE WATER; SHORT TERM 0.1 MG/L
- STP; SHORT TERM 3.26 MG/L
- SEDIMENT (FRESHWATER); SHORT TERM 0.337 MG/KG
- SEDIMENT (MARINEWATER); SHORT TERM 0.034 MG/KG
- SOIL; SHORT TERM 0.067 MG/KG

DELTA-3-CARENE (CAS: 13466-78-9)

DNEL

WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 5.69 MG/M³

WORKERS - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.8 MG/KG, BW/DAY

GENERAL POPULATION - INHALATION; LONG TERM SYSTEMIC EFFECTS: 1 MG/M³

GENERAL POPULATION - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.3 MG/KG, BW/DAY

GENERAL POPULATION - ORAL; LONG TERM SYSTEMIC EFFECTS: 0.3 BW/DAY, MG/KG

PNEC

- FRESH WATER; SHORT TERM 0.44 MG/L
- MARINE WATER; SHORT TERM 0.044 MG/L
- STP; SHORT TERM 3.26 MG/L
- SEDIMENT (FRESHWATER); SHORT TERM 104 MG/KG
- SEDIMENT (MARINEWATER); SHORT TERM 10.4 MG/KG
- SOIL; SHORT TERM 20.8 MG/KG

7-METHYL-3-METHYLENEOCTA-1,6-DIENE (CAS: 123-35-3)

DNEL

WORKERS - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.83 MG/KG

WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 5.83 MG/M³

GENERAL POPULATION - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.42 MG/KG

GENERAL POPULATION - INHALATION; LONG TERM SYSTEMIC EFFECTS: 1.25 MG/M³

PNEC

- STP; 0.2 MG/L
- SOIL; 1.015 MG/KG
- FRESH WATER; 0.00028 MG/L
- MARINE WATER; 0.0008 MG/L
- SEDIMENT (FRESHWATER); 5.022 MG/KG
- SEDIMENT (MARINEWATER); 0.502 MG/KG

A TERPINOLENE (CAS: 586-62-9)

DNEL

WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 3.6 MG/M³
WORKERS - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.52 BW/DAY, MG/KG
GENERAL POPULATION - INHALATION; LONG TERM SYSTEMIC EFFECTS: 0.9 MG/M³
GENERAL POPULATION - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.26 BW/DAY, MG/KG
GENERAL POPULATION - ORAL; LONG TERM SYSTEMIC EFFECTS: 0.26 BW/DAY, MG/KG

PNEC

- FRESH WATER; SHORT TERM 0.634 MG/L
- FRESH WATER, INTERMITTENT RELEASE; SHORT TERM 0.634 MG/L
- MARINE WATER; SHORT TERM 0.063 MG/L
- STP; SHORT TERM 0.2 MG/L
- SEDIMENT (FRESHWATER); SHORT TERM 14.7 MG/KG
- SEDIMENT (MARINEWATER); SHORT TERM 14.7 MG/KG
- SOIL; SHORT TERM 29.1 MG/KG

1,8 CINEOLE (CAS: 470-82-6)

DNEL

WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 7.05 MG/M³
WORKERS - DERMAL; LONG TERM SYSTEMIC EFFECTS: 2 BW/DAY, MG/KG
GENERAL POPULATION - INHALATION; LONG TERM SYSTEMIC EFFECTS: 1.74 MG/M³
GENERAL POPULATION - DERMAL; LONG TERM SYSTEMIC EFFECTS: 1 BW/DAY, MG/KG
GENERAL POPULATION - ORAL; LONG TERM SYSTEMIC EFFECTS: 600 MG/KG, BW/DAY

PNEC

- FRESH WATER; SHORT TERM 5.7 MG/L
- INTERMITTENT RELEASE, FRESH WATER; 0.57 MG/L
- MARINE WATER; SHORT TERM 5.7 MG/L
- STP; SHORT TERM 10 MG/L
- SEDIMENT (FRESHWATER); SHORT TERM 1.425 MG/KG
- SEDIMENT (MARINEWATER); SHORT TERM 0.142 MG/KG
- SOIL; SHORT TERM 0.25 MG/KG

CAMPENE (CAS: 79-92-5)

DNEL

WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 110.19 MG/M³
WORKERS - INHALATION; SHORT TERM SYSTEMIC EFFECTS: 110.19 MG/M³
WORKERS - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.21 MG/KG, BW/DAY
WORKERS - DERMAL; SHORT TERM SYSTEMIC EFFECTS: 1.25 MG/KG, BW/DAY
GENERAL POPULATION - INHALATION; LONG TERM SYSTEMIC EFFECTS: 54.3 MG/M³
GENERAL POPULATION - INHALATION; SHORT TERM SYSTEMIC EFFECTS: 54.3 MG/M³
GENERAL POPULATION - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.1 BW/DAY, MG/KG
GENERAL POPULATION - DERMAL; SHORT TERM SYSTEMIC EFFECTS: 0.625 BW/DAY, MG/KG
GENERAL POPULATION - ORAL; LONG TERM SYSTEMIC EFFECTS: 0.1 BW/DAY, MG/KG
GENERAL POPULATION - ORAL; SHORT TERM SYSTEMIC EFFECTS: 0.625 BW/DAY, MG/KG

PNEC

- FRESH WATER; SHORT TERM 0.001 MG/L
- INTERMITTENT RELEASE, FRESH WATER; 0.001 MG/L
- MARINE WATER; SHORT TERM 0 MG/L
- STP; SHORT TERM 10 MG/L
- SEDIMENT (FRESHWATER); SHORT TERM 0.026 MG/KG
- SEDIMENT (MARINEWATER); SHORT TERM 0.003 MG/KG
- SOIL; SHORT TERM 0.021 MG/KG

8.2

EXPOSURE CONTROLS



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EYE PROTECTION	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION. AVOID CONTACT WITH EYES. WEAR APPROVED SAFETY GOGGLES. (EN166)
HAND PROTECTION	AVOID CONTACT WITH SKIN. WASH HANDS BEFORE BREAKS AND AT END OF WORK. WEAR PROTECTIVE GLOVES. DIN/EN 374. THE GLOVE MATERIAL HAS TO BE IMPERMEABLE AND RESISTANT TO THE PRODUCT/ THE SUBSTANCE/ THE PREPARATION. PENETRATION TIME OF GLOVE MATERIAL: THE EXACT BREAK THROUGH TIME HAS TO BE FOUND OUT BY THE MANUFACTURER OF THE PROTECTIVE GLOVES AND HAS TO BE OBSERVED.
RESPIRATORY EQUIPMENT	SUITABLE RESPIRATORY PROTECTION: FILTER CLASS A2 (BROWN COLOUR). USE THE RULES FOR APPLICATION OF RESPIRATORY PROTECTION SYSTEMS.
HYGIENE MEASURES	GOOD PERSONAL HYGIENE PRACTICES ARE ALWAYS ADVISABLE, ESPECIALLY WHEN WORKING WITH CHEMICALS / OILS.
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. AVOID CONTACT WITH SKIN AND EYES. USE PERSONAL PROTECTION ACCORDING TO DIRECTIVE 89/686/EEC.
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.
ENVIRONMENTAL EXPOSURE CONTROLS	AVOID DISCHARGING INTO DRAINAGE WATER. ONLY ELIMINATE BY AUTHORISED COMPANIES.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

9.1 PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE	LIQUID
COLOUR	YELLOWISH - GREENISH
ODOUR	CHARACTERISTIC
RELATIVE DENSITY @ 20°C	0.865 – 0.885
FLASH POINT (°C)	46 - 50°C.
REFRACTIVE INDEX @ 20 °C	1.477 – 1.488
SOLUBILITY IN WATER @ 20 °C	NO DATA.

9.2 OTHER INFORMATION

NO DATA.

SECTION 10: STABILITY & REACTIVITY

10.1 REACTIVITY	NOT APPLICABLE.
10.2 CHEMICAL STABILITY	STABLE UNDER SUGGESTED STORAGE CONDITIONS (<15°C).
10.3 POSSIBILITY OF HAZARDOUS REACTIONS	NOT EXPECTED UNDER NORMAL CONDITIONS OF USE.
10.4 CONDITIONS TO AVOID	STORAGE AT HIGH TEMPERATURES. DO NOT STORE ABOVE 15°C. AVOID HEAT, FLAMES AND OTHER SOURCES OF IGNITION.
10.5 INCOMPATIBLE MATERIALS	AVOID CONCENTRATED ACIDS, ALKALIS & 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

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11.1 TOXICOLOGICAL EFFECTS	
ACUTE TOXICITY	NO DATA
SKIN IRRITATION	REACH DOSSIER INFORMATION. IRRITATING TO SKIN.
EYE DAMAGE OR IRRITATION	NO DATA.
RESPIRATORY OR SKIN SENSITIVITY	REACH DOSSIER INFORMATION. SENSITISING.
GERM CELL MUTAGENICITY	NO DATA.
CARCINOGENICITY	NO DATA.
REPRODUCTIVE TOXICITY	NO DATA.
STOT – SINGLE EXPOSURE	NO DATA.
STOT – REPEATED EXPOSURE	NO DATA.
ASPIRATION HAZARD	NO DATA.
OTHER INFORMATION	NO DATA.
SECTION 12: ECOLOGICAL INFORMATION	
12.1 TOXICITY	NO DATA.
12.2 PERSISTENCE & DEGRADABILITY	EXPECTED TO BE READILY BIODEGRADABLE.
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 OTHER ADVERSE EFFECTS	NO DATA.
SECTION 13: DISPOSAL INFORMATION	
13.1 WASTE TREATMENT METHODS	ALWAYS RECOVER SPILLED PRODUCT. DISCARD WASTE MATERIAL WITH AUTHORIZED WASTE MANAGEMENT SERVICES. ACT IN ACCORDANCE WITH LOCAL & NATIONAL WASTE REGULATIONS.

SECTION 14: TRANSPORT INFORMATION	
14.1 TRANSPORT INFORMATION	
UN NUMBER	ROAD: UN 1197 SEA: UN 1197 AIR: UN 1197
14.2 UN SHIPPING NAME	ADR: EXTRACTS, LIQUID IMDG: EXTRACTS, LIQUID (BETA-PINENE) MARINE POLLUTANT IATA: EXTRACTS, LIQUID
14.3 TRANSPORT HAZARD CLASS(ES)	ADR/RID/ADN CLASS: 3: FLAMMABLE LIQUID IMDG CLASS: 3

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	<p>ICAO CLASS/DIVISION: 3</p> <p>TRANSPORT LABELS:</p> 
14.4 PACKING GROUP	<p>ADR/RID/ADN PACKING GROUP III</p> <p>IMDG PACKING GROUP III</p> <p>ICAO PACKING GROUP III</p>
14.5 ENVIROMENTAL HAZARDS	<p>ENVIRONMENTALLY HAZARDOUS / MARINE POLLUTANT.</p> 
14.6 SPECIAL PRECAUTIONS FOR USER	<p>WARNING: FLAMMABLE LIQUID. DANGER CODE (KEMLER): 30 EMS NUMBER: F-E,S-D ADR LIMITED QUANTITIES (LQ): 5L EXCEPTED QUANTITIES (EQ) CODE: E1 MAXIMUM NET QUANTITY PER INNER PACKAGING: 30 ML MAXIMUM NET QUANTITY PER OUTER PACKAGING: 1000 ML TRANSPORT CATEGORY: 3 TUNNEL RESTRICTION CODE: D/E IMDG LIMITED QUANTITIES (LQ): 5L ACCEPTED QUANTITIES (EQ): CODE: E1 MAXIMUM NET QUANTITY PER INNER PACKAGING: 30 ML MAXIMUM NET QUANTITY PER OUTER PACKAGING: 1000 ML UN "MODEL REGULATION": UN1169, EXTRACTS, AROMATIC, LIQUID, SPECIAL PROVISION 640E, ENVIRONMENTALLY HAZARDOUS, 3, III</p>
14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 & THE IBC CODE.	NOT APPLICABLE.
SECTION 15: REGULATORY INFORMATION	
15.1 PRODUCT SPECIFIC SAFETY, HEALTH & ENVIRONMENTAL REGULATIONS & LEGISLATION	
EU DIRECTIVES	REGULATION (EC) No 1907/2006 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).
STATUTORY INSTRUMENTS	THE CHEMICALS (HAZARD INFORMATION & PACKAGING FOR SUPPLY REGULATIONS 2009 (S.I.2009 No 716).
APPROVED CODE OF PRACTICE	CLASSIFICATION & LABELLING 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	ASSESSMENT HAS NOT BEEN CARRIED OUT AS THIS IS A NON-HAZARDOUS MATERIAL ACCORDING TO

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ARTICLE 31 OF REACH 1907/2006.

SECTION 16: OTHER INFORMATION

HAZARD AND/ OR PRECAUTIONARY STATEMENTS IN FULL

H225 HIGHLY FLAMMABLE LIQUID AND VAPOUR.
H226 FLAMMABLE LIQUID AND VAPOUR.
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.
H335 MAY CAUSE RESPIRATORY IRRITATION.
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.

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.

DOCUMENTATION REVISION

DATE	CHANGE DESCRIPTION
10 TH APRIL 2018	DATA LAUNCH
2021	REVIEW
JANUARY 2023	REVIEW