



## Material Safety Data Sheet

### Section 1: Identification of the substance/mixture and of the company

#### 1.1 Product identification:

**Product name:-** Ylang Ylang 3, Essential Oil

**Biological Definition:-** Cananga Odorata Flower Oil is the third stage fraction obtained by the distillation of Ylang Ylang flowers, Cananga Odorata, Anonaceae.

**Inci Name:-** Cananga Odorata Flower Oil

**Synonyms & Trade Names:-** n/a

**Cas No:-** 83863-30-3 / 8006-81-3 / 68606-83-7

**EC no:-** 281-092-1

**EINECS No:-** 281-092-1

**Date:** August 2021

#### 1.2 Details of the supplier of the safety data sheet:

**Company Address:-** Vilana NB LTD, Unit 22A Dickson Street, Elgin Industrial Estate, Dunfermline KY12 7SL

**Email:-** [vilananb@gmail.com](mailto:vilananb@gmail.com)

**Emergency Contact:-** Vilana Bagdone

### Section 2: Hazards Identification

#### 2.1 Classification of the substance or mixture:

**Classification (67/548/EEC):-**

**Classification: (EU1272/2008):-**

Physical hazards: Not classified Health hazards:

Skin Irrit. 2 - H315 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:-** GHS07



**Signal Word:-** Danger

**Contains:-** BETA CARYOPHYLLENE, BENZYL SALICYLATE, LINALOOL, GERANYL ACETATE, FARNESOL, ISOEUGENOL

**Hazards Statement:-** H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

H315 CAUSES SKIN IRRITATION.

H317 MAY CAUSE AN ALLERGIC SKIN REACTION.

H411 TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

**Precautionary Statements:-**

P261 AVOID BREATHING VAPOUR/ SPRAY.

P264 WASH CONTAMINATED SKIN THOROUGHLY AFTER HANDLING.

P273 AVOID RELEASE TO THE ENVIRONMENT.

P301+P310 IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER/ DOCTOR.

P302+P352 IF ON SKIN: WASH WITH PLENTY OF WATER.

P331 DO NOT INDUCE VOMITING.

P501 DISPOSE OF CONTENTS/ CONTAINER IN ACCORDANCE WITH NATIONAL REGULATIONS.

**Supplementary Precautionary Statements:-**

P272 CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED OUT OF THE WORKPLACE.

P280 WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/ FACE PROTECTION.

P321 SPECIFIC TREATMENT (SEE MEDICAL ADVICE ON THIS LABEL).

P332+P313 IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/ ATTENTION.

P333+P313 IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ ATTENTION.

P362+P364 TAKE OFF CONTAMINATED CLOTHING AND WASH IT BEFORE REUSE.

P391 COLLECT SPILLAGE.

P405 STORE LOCKED UP.

### **2.3 Other Hazards:**

**Adverse Physio-Chemical Properties:-** MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. CAUSES SKIN IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION.

**Adverse Effects On Human Health:-** TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

**PBT or vPvB According to Annex X111:-** NO ADDITIONAL DATA AVAILABLE

### **Section 3: Composition of Ingredients:**

**3.1 Substances:-** 10 - 15% BETA CARYOPHYLLENE CAS NO: 7-44-5 EC NO: 201-746-1 CLASSIFICATION (EC 1272/2008): M FACTOR (ACUTE) = 1 M FACTOR (CHRONIC) = 1 SKIN IRRIT. 2 - H315, SKIN SENS. 1B - H317, ASP. TOX. 1 - H304, AQUATIC ACUTE 1 - H400, AQUATIC CHRONIC 1 - H410 5 - 10% BENZYL

BENZOATE CAS NO: 120-51-4 EC NO: 204-402-9 CLASSIFICATION (EC 1272/2008): M FACTOR (ACUTE) = 1 ACUTE TOX. 4 - H302, AQUATIC ACUTE 1 - H400, AQUATIC CHRONIC 2 - H411 5 - 10% BENZYL SALICYLATE CAS NO: 118-58-1 EC NO: 204-262-9 CLASSIFICATION (EC 1272/2008): EYE IRRIT. 2 - H319, SKIN SENS. 1B - H317, AQUATIC CHRONIC 3 - H412 5 - 10% LINALOOL CAS NO: 78-70-6 EC NO: 201-134-4 CLASSIFICATION (EC 1272/2008): SKIN IRRIT. 2 - H315, EYE IRRIT. 2 - H319, SKIN SENS. 1 - H317 5 - 10% BENZYL ACETATE CAS NO: 140-11-4 EC NO: 205-399-7 CLASSIFICATION (EC 1272/2008): AQUATIC CHRONIC 3 - H412 1 - 5% GERANYL ACETATE CAS NO: 105-87-3 EC NO: 203-341-5 CLASSIFICATION (EC 1272/2008): SKIN IRRIT. 2 - H315, SKIN SENS. 1B - H317, AQUATIC CHRONIC 3 - H412 1 - 5% FARNSEOL CAS NO: 4602-84-0 EC NO: 225-004-1 CLASSIFICATION (EC 1272/2008): M FACTOR (ACUTE) = 1 M FACTOR (CHRONIC) = 1 SKIN IRRIT. 2 - H315, SKIN SENS. 1 - H317, AQUATIC ACUTE 1 - H400, AQUATIC CHRONIC 1 - H410 1 - 5% P-CRESYL METHYL ETHER CAS NO: 104-93-8 EC NO: 203-253-7 CLASSIFICATION (EC 1272/2008): ACUTE TOX. 4 - H302, SKIN IRRIT. 2 - H315, REPR. 2 - H361 ≤ 1.0% ISOEUGENOL CAS NO: 97-54-1 EC NO: 202-590-7 CLASSIFICATION (EC 1272/2008): ACUTE TOX. 4 - H302, ACUTE TOX. 4 - H312, SKIN IRRIT. 2 - H315, EYE IRRIT. 2 - H319, SKIN SENS. 1 - H317, STOT SE 3 - H335 ≤ 1.0% GERANIOL CAS NO: 106-24-1 EC NO: 203-377-1 CLASSIFICATION (EC 1272/2008): SKIN IRRIT. 2 - H315, EYE DAM. 1 - H318, SKIN SENS. 1 - H317 ≤ 1.0% EUGENOL CAS NO: 97-53-0 EC NO: 202-589-1 CLASSIFICATION (EC 1272/2008): EYE IRRIT. 2 - H319, SKIN SENS. 1 - H317, ASP. TOX. 1 - H304

## **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:-** GET MEDICAL ATTENTION IMMEDIATELY. RINSE MOUTH WITH WATER AND OBTAIN MEDICAL ATTENTION.

**SKIN CONTACT:-** REMOVE CONTAMINATED CLOTHES. WASH THOROUGHLY WITH SOAP AND WATER. CONTACT DOCTOR IF IRRITATION PERSISTS.

**EYE CONTACT:-** FLUSH IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES. CONTACT DOCTOR IF SYMPTOMS PERSIST.

**4.2 MOST IMPORTANT SYMPTOMS & EFFECTS (ACUTE & DELAYED):-** NO ADDITIONAL DATA AVAILABLE

**4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION OR SPECIAL TREATMENT REQUIRED:-** TREAT SYMPTOMATICALLY

## **SECTION 5: FIRE FIGHTING MEASURES:**

**5.1 EXTINGUISHING MATERIAL:-** CARBON DIOXIDE, FOAM, DRY CHEMICAL POWDER

**UNSUITABLE EXTINGUISHING MATERIAL:-** DO NOT USE WATER JET AS AN EXTINGUISHER, AS THIS MAY SCATTER AND SPREAD FIRE.

**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<sub>2</sub>), 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:** AVOID INHALATION OF GENERATED FUMES OR VAPOURS. WEAR SELF-CONTAINED BREATHING APPARATUS AND APPROPRIATE PROTECTIVE CLOTHING.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1 PERSONAL PRECAUTIONS:-** WEAR PROTECTIVE CLOTHING AS DESCRIBED IN SECTION 8 OF THIS SAFETY DATA SHEET. HANDLE THE PRODUCT USING PROTECTIVE GLOVES RESISTANT TO THE CHEMICALS EXPOSED. AVOID CONTACT WITH SKIN AND INHALATION OF ITS VAPOURS. 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 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 7, 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:-**

KEEP THE PRODUCT CONTAINER TIGHTLY CLOSED, IN A DRY, VENTILATED AREA. KEEP AWAY FROM POTENTIAL SOURCES OF IGNITION AND PROTECTED FROM LIGHT. MAINTAIN LIMITED CONTACT WITH OXYGEN..

**7.3 SPECIFIC END USE(S):- NO DATA**

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

**8.1 CONTROL PARAMETERS:- BENZYL SALICYLATE (CAS: 118-58-1)**

DNEL

WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 3.17 MG/M<sup>3</sup>

WORKERS - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.9 BW/DAY, MG/KG

GENERAL POPULATION - INHALATION; LONG TERM SYSTEMIC EFFECTS: 0.78 MG/M<sup>3</sup>

GENERAL POPULATION - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.45 BW/DAY, MG/KG

GENERAL POPULATION - ORAL; LONG TERM SYSTEMIC EFFECTS: 0.45 MG/KG, BW/DAY

PNEC

- FRESH WATER; SHORT TERM 0.001 MG/L

- FRESH WATER; INTERMITTENT RELEASE, 0.01 MG/L

- MARINE WATER; SHORT TERM 0 MG/L

- STP; SHORT TERM 10 MG/L

- SEDIMENT (FRESHWATER); SHORT TERM 0.583 MG/KG

- SEDIMENT (MARINE WATER); SHORT TERM 0.058 MG/KG

- SOIL; SHORT TERM 1.41 MG/KG

LINALOOL (CAS: 78-70-6)

DNEL

WORKERS - DERMAL; SHORT TERM SYSTEMIC EFFECTS: 5 MG/KG

WORKERS - INHALATION; SHORT TERM SYSTEMIC EFFECTS: 16.5 MG/M<sup>3</sup>

WORKERS - DERMAL; LONG TERM SYSTEMIC EFFECTS: 2.5 MG/KG

WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 2.8 MG/M<sup>3</sup>

GENERAL POPULATION - ORAL; SHORT TERM SYSTEMIC EFFECTS: 1.5 MG/KG

GENERAL POPULATION - DERMAL; SHORT TERM SYSTEMIC EFFECTS: 2.5 MG/KG

GENERAL POPULATION - INHALATION; SHORT TERM SYSTEMIC EFFECTS: 4.1 MG/M<sup>3</sup>

GENERAL POPULATION - ORAL; LONG TERM SYSTEMIC EFFECTS: 0.2 MG/KG

GENERAL POPULATION - DERMAL; LONG TERM SYSTEMIC EFFECTS: 1.25 MG/KG

GENERAL POPULATION - INHALATION; LONG TERM SYSTEMIC EFFECTS: 0.7 MG/M<sup>3</sup>

PNEC

- STP; SHORT TERM 10 MG/L
- SOIL; SHORT TERM 0.327 MG/KG
- INTERMITTENT RELEASE; SHORT TERM 2 MG/L
- FRESH WATER; SHORT TERM 0.2 MG/L
- MARINE WATER; SHORT TERM 0.02 MG/L
- SEDIMENT (FRESHWATER); SHORT TERM 2.22 MG/KG
- SEDIMENT (MARINE WATER); SHORT TERM 0.222 MG/KG

GERANYL ACETATE (CAS: 105-87-3)

DNEL

WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 62.59 MG/M<sup>3</sup>

WORKERS - DERMAL; LONG TERM SYSTEMIC EFFECTS: 35.5 BW/DAY, MG/KG

GENERAL POPULATION - INHALATION; LONG TERM SYSTEMIC EFFECTS: 15.4 MG/M<sup>3</sup>

GENERAL POPULATION - DERMAL; LONG TERM SYSTEMIC EFFECTS: 17.75 MG/KG, BW/DAY

GENERAL POPULATION - ORAL; LONG TERM SYSTEMIC EFFECTS: 8.9 MG/KG, BW/DAY

PNEC

- FRESH WATER; SHORT TERM 3.72 MG/L
- FRESH WATER, INTERMITTENT RELEASE; 37.2 MG/L
- MARINE WATER; SHORT TERM 0.372 MG/L
- STP; SHORT TERM 8 MG/L
- SEDIMENT (FRESHWATER); SHORT TERM 0.442 MG/KG
- SEDIMENT (MARINE WATER); SHORT TERM 0.044 MG/KG
- SOIL; SHORT TERM 0.086 MG/KG

BENZYL ACETATE (CAS: 140-11-4)

DNEL

WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 21.9 MG/M<sup>3</sup>

WORKERS - INHALATION; SHORT TERM SYSTEMIC EFFECTS: 43.8 MG/M<sup>3</sup>

WORKERS - DERMAL; LONG TERM SYSTEMIC EFFECTS: 6.25 MG/KG, BW/DAY

WORKERS - DERMAL; SHORT TERM SYSTEMIC EFFECTS: 12.5 BW/DAY, MG/KG

GENERAL POPULATION - INHALATION; LONG TERM SYSTEMIC EFFECTS: 5.5 MG/M<sup>3</sup>

GENERAL POPULATION - INHALATION; SHORT TERM SYSTEMIC EFFECTS: 11 MG/M<sup>3</sup>

GENERAL POPULATION - DERMAL; LONG TERM SYSTEMIC EFFECTS: 3.125 BW/DAY, MG/KG

GENERAL POPULATION - DERMAL; SHORT TERM SYSTEMIC EFFECTS: 6.25 BW/DAY, MG/KG

GENERAL POPULATION - ORAL; LONG TERM SYSTEMIC EFFECTS: 3.125  
MG/KG, BW/DAY

GENERAL POPULATION - ORAL; SHORT TERM SYSTEMIC EFFECTS: 6.25  
MG/KG, BW/DAY

PNEC

- FRESH WATER; SHORT TERM 0.004 MG/L
- INTERMITTENT RELEASE, FRESH WATER; 0.04 MG/L
- MARINE WATER; SHORT TERM 0 MG/L
- STP; SHORT TERM 8.55 MG/L
- SEDIMENT (FRESHWATER); SHORT TERM 0.114 MG/KG
- SEDIMENT (MARINE WATER); SHORT TERM 0.011 MG/KG
- SOIL; SHORT TERM 0.021 MG/KG

P-CRESYL METHYL ETHER (CAS: 104-93-8)

DNEL

WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 2.9 MG/M<sup>3</sup>

WORKERS - DERMAL; LONG TERM SYSTEMIC EFFECTS: 13.9 MG/KG, BW/DAY

GENERAL POPULATION - INHALATION; LONG TERM SYSTEMIC EFFECTS: 0.7  
MG/M<sup>3</sup>

GENERAL POPULATION - DERMAL; LONG TERM SYSTEMIC EFFECTS: 8.3  
BW/DAY, MG/KG

GENERAL POPULATION - ORAL; LONG TERM SYSTEMIC EFFECTS: 0.4  
BW/DAY, MG/KG

PNEC

- FRESH WATER; SHORT TERM 0.027 MG/L
- MARINE WATER; SHORT TERM 0.003 MG/L
- STP; SHORT TERM 10 MG/L
- SEDIMENT (FRESHWATER); SHORT TERM 0.862 MG/KG
- SEDIMENT (MARINE WATER); SHORT TERM 0.086 MG/KG

GERANIOL (CAS: 106-24-1)

DNEL

WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 161.6 MG/M<sup>3</sup>

WORKERS - DERMAL; LONG TERM SYSTEMIC EFFECTS: 12.5 MG/KG, BW/DAY

GENERAL POPULATION - INHALATION; LONG TERM SYSTEMIC EFFECTS: 47.8  
MG/M<sup>3</sup>

GENERAL POPULATION - DERMAL; LONG TERM SYSTEMIC EFFECTS: 7.5  
BW/DAY, MG/KG

GENERAL POPULATION - ORAL; LONG TERM SYSTEMIC EFFECTS: 13.75  
BW/DAY, MG/KG

PNEC

- FRESH WATER; SHORT TERM 0.011 MG/L
- FRESH WATER; INTERMITTENT RELEASE, 0.108 MG/L
- MARINE WATER; SHORT TERM 0.001 MG/L
- STP; SHORT TERM 0.7 MG/L
- SEDIMENT (FRESHWATER); SHORT TERM 0.115 MG/KG

- SEDIMENT (MARINE WATER); SHORT TERM 0.011 MG/KG

- SOIL; SHORT TERM 0.017 MG/KG

EUGENOL (CAS: 97-53-0)

DNEL

WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 21.2 MG/M<sup>3</sup>

WORKERS - DERMAL; LONG TERM SYSTEMIC EFFECTS: 6 BW/DAY, MG/KG

GENERAL POPULATION - INHALATION; LONG TERM SYSTEMIC EFFECTS: 5.22 MG/M<sup>3</sup>

GENERAL POPULATION - DERMAL; LONG TERM SYSTEMIC EFFECTS: 3

BW/DAY, MG/KG

GENERAL POPULATION - ORAL; LONG TERM SYSTEMIC EFFECTS: 3 BW/DAY, MG/KG

PNEC

- FRESH WATER; SHORT TERM 1.13 MG/L

- FRESH WATER; INTERMITTENT RELEASE, 11.3 MG/L

- MARINE WATER; SHORT TERM 0.113 MG/L

- SEDIMENT (FRESHWATER); SHORT TERM 0.081 MG/KG

- SEDIMENT (MARINE WATER); SHORT TERM 0.008 MG/KG

- SOIL;

## 8.2 EXPOSURE CONTROLS:-



**EYE PROTECTION:-** WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION. AVOID CONTACT WITH EYES. WEAR APPROVED SAFETY GOGGLES. (EN166)

**HAND PROTECTION:-** WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION. AVOID CONTACT WITH EYES. WEAR APPROVED SAFETY GOGGLES. (EN166)

**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:-** 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 VAPOURS  
**PROCESS CONDITIONS:-** ENSURE AREA IS WELL VENTILATED. AVOID VAPOUR INHALATION. SAFETY SHOWER & EYE BATH.  
**ENVIRONMENTAL EXPOSURE CONTROLS:-** AVOID DISCHARGING INTO DRAINAGE WATER.

## **SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**

### **9.1 PHYSICAL & CHEMICAL PROPERTIES:-**

**APPEARANCE:-** LIQUID

**COLOUR:-** PALE YELLOW - DARK YELLOW

**ODOUR:-** CHARACTERISTIC

**RELATIVE DENSITY:-** APPROX 0.929 @ 20°C

**FLASH POINT (°C):-** 88°C

**REFRACTIVE INDEX @ 20 °C:-** APPROX 1.505 @ 20°C

**SOLUBILITY IN WATER @ 20 °C:-** 0.013G/LM WATER @25°C

**9.2 OTHER INFORMATION:-** MELTING POINT (°C): 15.76

BOILING POINT (°C): 125

VAPOUR PRESSURE: 3.04 PA @25°C

AUTO-IGNITION TEMPERATURE (°C): 240.0

## **SECTION 10: STABILITY & REACTIVITY**

**10.1 REACTIVITY:-** PRESENTS NO SIGNIFICANT REACTIVITY HAZARDS, BY ITSELF OR IN CONTACT WITH WATER. STABLE UNDER NORMAL TEMPERATURE AND STORAGE CONDITIONS AND RECOMMENDED USE.

**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:-** AVOID HEAT, FLAMES AND OTHER SOURCES OF IGNITION

**10.5 INCOMPATIBLE MATERIALS:-** AVOID CONCENTRATED ACIDS, ALKALIS & 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) AND OTHER TOXIC GASES.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1 TOXICOLOGICAL EFFECTS:**

**ACUTE TOXICITY:-** ATE ORAL (MG/KG) 6,410.26

**SKIN IRRITATION:-** MAY CAUSE SKIN IRRITATION

**EYE DAMAGE OR IRRITATION:-** NOT CLASSIFIED

**RESPIRATORY OR SKIN SENSITIVITY:-** SKIN - MAY CAUSE AN ALLERGIC SKIN REACTION

**GERM CELL MUTAGENICITY:-** NOT CLASSIFIED

**CARCINOGENICITY:-** NOT CLASSIFIED

**REPRODUCTIVE TOXICITY:-** NOT CLASSIFIED

**STOT – SINGLE EXPOSURE:-** NOT CLASSIFIED

**STOT – REPEATED EXPOSURE:-** NOT CLASSIFIED

**ASPIRATION HAZARD:-** MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS

**OTHER INFORMATION:-** NO DATA.

## **SECTION 12: ECOLOGICAL INFORMATION**

**12.1 TOXICITY:-** ACUTE TOXICITY - AQUATIC INVERTEBRATES EL50, 48 HOURS: 10.4 MG/L, DAPHNIA MAGNA ACUTE TOXICITY - MICROORGANISMS EC<sub>50</sub>, 3 HOURS: 1000 MG/L, ACTIVATED SLUDGE

**12.2 PERSISTENCE & DEGRADABILITY:-** NO DATA

**12.3 BIO- ACCUMULATIVE POTENTIAL:-** PARTITION COEFFICIENT LOG POW: 6.995

**12.4 MOBILITY IN SOIL:-** NO ADDITIONAL DATA AVAILABLE

**12.5 RESULTS OF PBT & VPVB ASSESSMENT:-** NO ADDITIONAL DATA AVAILABLE

**12.6 OTHER ADVERSE EFFECTS:-** NO ADDITIONAL DATA AVAILABLE

## **SECTION 13: DISPOSAL INFORMATION**

**13.1 WASTE TREATMENT METHODS:-** DO NOT ALLOW ENTRY INTO DRAINS OR WATERWAYS.

### **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.

SOILED PACKAGING:

EMPTY CONTAINER COMPLETELY. KEEP LABEL(S) ON CONTAINER. DISPOSE OF VIA A CERTIFIED DISPOSAL CONTRACTOR..

## **SECTION 14: TRANSPORT INFORMATION**

**14.1 TRANSPORT INFORMATION:-** ROAD: 3082 RAIL: 3082 AIR: 3082

**14.2 UN SHIPPING NAME:-** ENVIRONMENTALLY HAZARD SUBSTANCE LIQUID, N.O.S

**14.3 TRANSPORT HAZARD CLASS(EADR/RID ADR/RID – CLASS 9 ADR CLASSIFICATION CODE – M6 ADR TRANSPORT CATEGORY - 3 HARD IDENTIFICATION NUMBER - 90 SPECIAL PROVISIONS – 274 335 375 601 LIMITED QUANTITIES – 5L EXPECTED QUANTITIES – E1 EMERGENCY ACTION CODE – •3Z IMDG IMDG – CLASS 9 SPECIAL PROVISIONS – 274 335 375 601 LIMITED QUANTITIES – 5L EXPECTED QUANTITIES – E1 IMDG EMS – F-A, S-F STOWAGE AND HANDLING – CATEGORY A ICAO/IATA ICAO/IATA– CLASS 9 IATA PROPER SHIPPING NAME - ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S. EXPECTED QUANTITIES – E1**

**TRANSPORT LABELS:-**



**14.4 PACKING GROUP:-** ADR/RID PACKING GROUP: III IMDG PACKING GROUP: III ICAO PACKING GROUP: III

**14.5 ENVIRONMENTAL HAZARDS:-** ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT.



**14.6 SPECIAL PRECAUTIONS FOR USER EMS:** SEE SECTIONS 6-8

**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 18TH 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:-** NO DATA

## **SECTION 16 OTHER INFORMATION**

### **HAZARD AND/OR PRECAUTIONARY STATEMENTS IN FULL:-**

H226 FLAMMABLE LIQUID AND VAPOUR.

H302 HARMFUL IF SWALLOWED.

H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

H312 HARMFUL IN CONTACT WITH SKIN.

H315 CAUSES SKIN IRRITATION.

H317 MAY CAUSE AN ALLERGIC SKIN REACTION.

H318 CAUSES SERIOUS EYE DAMAGE.

H319 CAUSES SERIOUS EYE IRRITATION.

H361 SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

H400 VERY TOXIC TO AQUATIC LIFE.

H411 TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

H412 HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS.