




## MATERIAL SAFETY DATASHEET

|                           |                              |
|---------------------------|------------------------------|
| Date of Issue: 20/01/2020 | Document No: VRI/MSDS/06-057 |
| Revision Date: 11/07/2020 | Revision No: 01              |

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

|   |                        |   |           |            |           |
|---|------------------------|---|-----------|------------|-----------|
| <b>1.1 Product Identifier</b>   |                        |   |           |            |           |
| Product Name  |                        | Tuberose Essential Oil  |           |            |           |
| Biological Definition   |                        | The volatile oil obtained by the steam distillation of the flowering <i>Polianthes tuberosa</i> herb. |           |            |           |
| INCI Name   |                        | <i>Polianthes tuberosa flower oil</i>   |           |            |           |
| Synonyms & Trade Names  |                        | ---   |           |            |           |
| CAS-No  | 90082-51-2 / 8000-46-2 | EC No.  | 290-140-0 | EINECS No. | 290-140-0 |
| <b>1.2 Relative identified uses of the substance or mixture and uses advised against</b>                        |                        |   |           |            |           |
| Industrial uses. Formulation [mixing] of preparations. Uses advised against: Other uses than those recommended. |                        |   |           |            |           |
| <b>1.3 Details of the supplier of the safety data sheet</b>   |                        |   |           |            |           |
| VENKATRAMNA INDUSTRIES, Talaya Chauki, Kannauj-209725, (UP) INDIA   |                        |   |           |            |           |
| <b>1.4 Emergency Tel. No.</b>   |                        | +91-9554075786  |           |            |           |

## 2. HAZARDS IDENTIFICATION

|  |        |
|--|--------|
| <b>2.1 Classification of the substance or mixture</b>  |        |
| Skin corrosion/irritation, Hazard Category 2; H315<br>Serious eye damage/eye irritation, Hazard Category 2; H319<br>Sensitisation — Skin, Hazard Category 1; H317<br>Aquatic hazard Category 3; H412                                   |        |
| <b>2.2 Label Elements</b>  |        |
| Signal Word  | Danger |
|   |        |
| Hazard Statements  |        |
| H304 - May be fatal if swallowed and enters airways<br>H315 - Causes skin irritation<br>H317 - May cause an allergic skin reaction<br>H319 - Causes serious eye irritation<br>H412 - Harmful to aquatic life with long-lasting effects |        |
| Precautionary Statements   |        |

P102 – Keep out of reach of children.  
 P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.  
 P331 – Do NOT induce vomiting.  
 P405 – Store locked up.  
 P501 – Dispose of contents/container to an approved waste disposal plant.  
 P264 – Wash hands thoroughly after handling.  
 P280 – Wear protective gloves/protective clothing/eye protection/face protection.  
 P302 + P352 – IF ON SKIN: Wash with plenty of water/soap.  
 P312 – Call a POISON CENTER/doctor/physician if you feel unwell.  
 P362 + P364 – Take off contaminated clothing and wash it before reuse.  
 P261 – Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P272 – Contaminated work clothing should not be allowed out of the workplace.  
 P280 – Wear protective gloves/protective clothing/eye protection/face protection.  
 P302 + P352 – IF ON SKIN: Wash with plenty of water/soap.  
 P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention.  
 P362 + P364 – Take off contaminated clothing and wash before reuse.  
 P264 – Wash hands thoroughly after handling.  
 P280 – Wear protective gloves/protective clothing/eye protection/face protection.  
 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

#### Supplementary Precautionary Statements

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### 2.3 Other Hazards

May cause skin irritation/allergy. Patch test recommended.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

|                   |         |
|-------------------|---------|
| Tuberosa Absolute | 90% w/w |
|-------------------|---------|

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

|              |   |
|--------------|---|
| Inhalation   | Remove person to fresh air and keep at rest   |
| Ingestion    | If swallowed, rinse mouth with water. Seek medical advice immediately and show this container or label. Do NOT induce vomiting. |
| Skin Contact | Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.                            |
| Eye Contact  | First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.         |

### 4.2 Most important symptoms and effects, both acute and delayed

Eye contact: May cause eye irritation and corneal damage if not immediately rinsed out.  
 Skin Contact: Repeated contact may cause allergic dermatitis.  
 Inhalation: Breathing high concentrations of vapor may cause anesthetic effects.  
 Ingestion: Do Not Induce vomiting.

### 4.3 Indication of any immediate medical attention and special treatment needed

|                              |
|------------------------------|
| No additional data available |
|------------------------------|

## 5. FIRE-FIGHTING MEASURES

|   |  |
|---|--|
| <b>5.1 Extinguishing Media</b>                      | Carbon dioxide, dry chemical powder or appropriate foam. For safety reasons do not use full water jet  |
| <b>5.2 Special hazards arising from the product</b> | None known   |
| <b>5.3 Advice for firefighters</b>                  | In case of fire in the surrounding area, follow the recommendations below:<br>1-Closed containers may build up pressure at elevated temperatures.<br>2-Avoid inhalation of fumes or vapours. Use appropriate respiratory protection.<br>3-Prevent run-off from fire fighting to enter drains or water courses. |

## 6. ACCIDENTAL RELEASE MEASURES

|  |   |
|--|---|
| <b>6.1 Personal precautions, protective equipment and emergency procedures</b> | Wear appropriate gloves to prevent skin exposure. Avoid contact with skin and inhalation of its vapours or smoke. Maintain adequate ventilation in the working area after spilling.   |
| <b>6.2 Environmental Precautions</b>   | Avoid contaminating the environment via the sewers or water sources.  |
| <b>6.3 Methods and material for containment and cleaning up.</b>               | Cover with an inert, inorganic, non-combustible absorbent material (e.g. dry-lime, sand, soda ash). Ventilate area and wash spill site after material pickup is complete. Dispose of in accordance with current laws and regulations. |
| <b>6.4 Reference to other sections</b>   | See also sections 8 and 13.   |

## 7. HANDLING AND STORAGE

|   |   |
|---|---|
| <b>7.1 Precautions for safe handling</b>                                | Keep away from food, drink and animal feedingstuffs. Do not smoke. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.   |
| <b>7.2 Conditions for safe storage, including any incompatibilities</b> | Keep the product in its original container well sealed, in a dry and ventilated area, away from potential sources of ignition and protected from light. Store in accordance with local/national regulations and follow the warnings on the label. |
| <b>7.3 Specific end use(s)</b>  | No additional data available.   |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Declaration of substances is not required

### 8.2 Exposure controls

#### Protective Equipment



|                                 |  |
|---------------------------------|--|
| Process Conditions              | Provide eyewash station.   |
| Engineering Measures            | Provide adequate ventilation.  |
| Respiratory Equipment           | For high concentrations use respiratory equipment.   |
| Hand Protection                 | Chemical resistant gloves (PVC)  |
| Eye Protection                  | Wear approved safety goggles.  |
| Other Protection                | Wear appropriate clothing to prevent any possibility of skin contact.                                |
| Hygiene Measures                | Good personal hygiene practices are always advisable, especially when working with chemicals / oils. |
| Personal Protection             | Use personal protection according to Directive 89/686/EEC.   |
| Skin Protection                 | Wear apron or protective clothing in case of splashes.   |
| Environmental Exposure Controls | Avoid discharging into drainage water. Only eliminate by authorized companies.                       |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|                                |                              |
|--------------------------------|------------------------------|
| Appearance                     | Viscous liquid               |
| Colour                         | Amber                        |
| Odour                          | Floral                       |
| Specific gravity               | 0.840-0.965                  |
| Flash Point (°C)               | > 95 °C                      |
| Refractive Index               | 1.494-1.568 (20 °C)          |
| Melting Point (°C)             | No additional data available |
| Boiling Point (°C)             | No additional data available |
| Vapour Pressure                | No additional data available |
| Solubility in Water @20°C      | Insoluble in water.          |
| Auto-ignition temperature (°C) | No additional data available |

### 9.2 Other information

No additional data available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

|   |
|---|
| No dangerous reactions known.   |
| <b>10.2 Chemical stability</b>  |
| Stable under normal operating conditions.   |
| <b>10.3 Possible hazardous reactions</b>  |
| Hazardous Polymerization: It does not undergo any dangerous reactions under normal conditions.                |
| <b>10.4 Conditions to Avoid</b>   |
| Heat, flames and other sources of ignition. No special precautions other than good housekeeping of chemicals. |
| <b>10.5 Incompatible materials</b>  |
| Oxidizing mineral acids, strong reducing agents, strong oxidizing agents.                                     |
| <b>10.6 Hazardous Decomposition Products</b>  |
| Carbon monoxide and other unidentified organic compounds may be formed upon combustion.                       |

## 11. TOXOLOGICAL INFORMATION

|  |  |
|--|--|
| <b>11.1 Information on toxicological effects</b>   |  |
| Acute Toxicity   | This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008 |
| Skin corrosion / irritation  | May be irritating to skin  |
| Serious eye damage / irritation  | May be irritating to eyes. Prompt rinsing and removal of the substance will avoid damage.                    |
| Respiratory or skin sensitization  | Breathing high concentrations of vapor may cause anesthetic effects.   |
| Germ Cell Mutagenicity   | Not listed as mutagenic  |
| Carcinogenicity  | Not listed as carcinogenic   |
| Reproductive toxicity  | Not listed as reprotoxic   |
| STOT-single exposure   | No data available  |
| STOT-repeated exposure   | No data available  |
| Aspiration hazard  | Not Specified  |
| Photo-toxicity   | Not listed as photo-toxic  |
| Other Information  | No additional data available   |
| <b>11.2 Information on the likely routes of exposure</b>   |  |
| Skin/scalp contact.  |  |
| <b>11.3 Symptoms related to the physical, chemical, and toxicological characteristics</b>            |  |
| None known. Irritation of the eye if exposed. Redness of the skin if irritated                       |  |
| <b>11.4 Delayed and immediate effects and chronic effects from short-term and long-term exposure</b> |  |
| No Data Available  |  |

## 12. ECOLOGICAL INFORMATION

|  |  |
|--|--|
| <b>12.1 Toxicity</b>                                       |  |
| Acute fish toxicity:<br>LC50 / 96 HOUR – No data available |  |

|   |
|---|
| Toxicity to aquatic plants – No data available                    |
| Toxicity to microorganisms – No data available                    |
| Toxicity threshold – No data available                            |
| <b>12.2 Persistence &amp; degradability</b>                       |
| Biodegradation is expected  |
| <b>12.3 Bioaccumulation Potential</b>                             |
| Bioaccumulation is unlikely                                       |
| <b>12.4 Mobility in soil</b>                                      |
| Not determined  |
| <b>12.5 Results of PBT and vPvB Assessment</b>                    |
| No data available   |
| <b>12.6 Other adverse effects</b>                                 |
| Do not allow product to enter streams, sewers or other waterways. |

## 13. DISPOSAL CONSIDERATIONS

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|--|
| <b>13.1 Waste treatment methods</b>  |
| Containers must be disposed of as hazardous waste. Do not reuse empty containers. Dilute the remaining material and neutralise. Empty residue into a suitable disposal site. Dispose of in accordance with all state and local environmental regulations. This material and its container must be disposed of in a safe way. |

## 14. TRANSPORT INFORMATION

|  |                             |
|--|-----------------------------|
| <b>14.1 UN number</b>  |                             |
| UN No. Road  | Not regulated for transport |
| UN No. SEA   | Not regulated for transport |
| UN No. AIR   | Not regulated for transport |
| <b>14.2 UN proper shipping name</b>  |                             |
| Not classified   |                             |
| <b>14.3 Transport hazard class(es)</b>   |                             |
| ADR/RID/ADN Not regulated for transport  |                             |
| ADR/RID/ADN Class - - -  |                             |
| IMDG Class - - -   |                             |
| ICAO Class/Division - - -  |                             |
| <b>14.4 Packing group</b>  |                             |
| ADR/RID/ADN Packing group Not regulated for transport                                      |                             |
| IMDG Packing group - - -   |                             |
| ICAO Packing group - - -   |                             |
| <b>14.5 Environmental hazards</b>  |                             |
| Do not allow to escape into environment, especially not into waterways, sewers or the sea. |                             |
| <b>14.6 Special precautions for user</b>   |                             |

|   |
|---|
| EMS: Not allocated<br>Emergency Action Code: Not allocated<br>Hazard No. (ADR): Not allocated<br>Tunnel Restriction Code (E) Not assigned |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78° and IBC Code  |
| N/A   |

## 15. REGULATORY INFORMATION

|      |  |
|------|--|
| 15.1 | Safety, health and environmental regulations/legislation specific for the substance or mixture |
|      | Not available  |
| 15.2 | Chemical safety assessment   |
|      | No additional information available.   |

## 16. OTHER INFORMATION

|  |  |
|--|--|
| Hazard and/or Precautionary Statements in Full | H317: May cause an allergic skin reaction. |
| Other Information                              | None found                                 |

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

Mail.: [info@vriaroma.com](mailto:info@vriaroma.com) Web.: [www.vriaroma.com](http://www.vriaroma.com) Mob & Whatsapp.: +91-9554075786

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