



MATERIAL SAFETY DATASHEET

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

1.1 Product Identifier					
Product Name		Bitter Orange Essential Oil			
Biological Definition		Citrus Aurantium Amara Peel Extract is an extract of the peel of the Bitter Orange, Citrus aurantium L. var. amara L., Rutaceae			
INCI Name		<i>Citrus aurantium</i>			
Synonyms & Trade Names		Neroli Essential oil, Petitgrain Essential Oil			
CAS-No	68916-04-1 / 72968-50-4	EC No.	277-143-2	EINECS No.	N/A
1.2 Relative identified uses of the substance or mixture and uses advised against					
Industrial uses. Formulation [mixing] of preparations. Uses advised against: Other uses than those recommended.					
1.3 Details of the supplier of the safety data sheet					
VENKATRAMNA INDUSTRIES, Talaya Chauki, Kannauj-209725, (UP) INDIA					
1.4 Emergency Tel. No.		+91-9554075786			

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
Classification according to the Regulation (EC) No 1272/2008. Sensitization — Skin, Hazard Category 1; H317.	
2.2 Label Elements	
Signal Word	Warning
	
Hazard Statements	
H317: May cause an allergic skin reaction. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. H411 Toxic to aquatic life with long lasting effects.	
Precautionary Statements	
P102 - Keep out of the reach of children. P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P280: Wear protective gloves. P302+P352: IF ON SKIN: Wash with plenty of water.	

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
 P362+P364: Take off contaminated clothing and wash it before reuse.
 P501: Dispose of contents/container to an approved waste disposal plant.

Supplementary Precautionary Statements

2.3 Other Hazards

May cause skin irritation/allergy. Patch test recommended.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Citrus Oil 100% by weight

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

Immediate medical assistance : see point 4.1
 Immediate / special treatment : see point 4.1
 First aid specific means: eye wash fountain, safety shower should be available in the work area.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Carbon dioxide, dry chemical powder or appropriate foam. For safety reasons do not use full water jet

5.2 Special hazards arising from the product

Vapours may form explosive mixture with air – in case of fire, the following can be released: Carbon monoxide, Carbon dioxide, smoke, soot.

5.3 Advice for firefighters

Use chemical protection clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	
	For non emergency personnel: in an emergency (i.e. unintentional important release of the product in enclosed space) respiratory protection (Gas filter A, Colour code brown: consider the maximum duration for wear) must be worn. Use insulating device for respiratory protection with an independent air supply in circumstances which are unclear - use adequate protections solvent resistant: security shoes, bodysuit, gloves and protective goggles (see point 8). For emergency responders: as per non emergency personnel. Emergency procedures: remove any ignition source and ensure adequate ventilation in working areas following accidental releases.
6.2	Environmental Precautions
	Avoid contaminating the environment via the sewers or water sources.
6.3	Methods and material for containment and cleaning up.
	Keep away from heat and use non-combustible absorbing sawdust (sand, specific binder). Refer to point 13 for the appropriate methods of waste treatment.
6.4	Reference to other sections
	See also sections 8 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling	
	Keep away from food, drink and animal feeding stuffs. Do not smoke. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.
7.2	Conditions for safe storage, including any incompatibilities
	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.
7.3	Specific end use(s)
	Use as odor agent / flavoring agent - the information of this section are not related to the use of the product in combination with any other material or any other process altering its characteristics.

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	Clear Liquid
Colour	Pale Yellowish Orange
Odour	Citrus
Relative Density	0.863 - 0.873 g/cm ³ (20 °C)
Flash Point (°C)	57 °C
Refractive Index	1.425 - 1.470 (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.
10.2 Chemical stability
Stable under normal operating conditions.
10.3 Possible hazardous reactions
Hazardous Polymerization: It does not undergo any dangerous reactions under normal conditions.
10.4 Conditions to Avoid
Heat, flames and other sources of ignition. No special precautions other than good housekeeping of chemicals.
10.5 Incompatible materials
Oxidizing mineral acids, strong reducing agents, strong oxidizing agents.
10.6 Hazardous Decomposition Products

Carbon monoxide and other unidentified organic compounds may be formed upon combustion.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects

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

11.2 Information on the likely routes of exposure

Skin/scalp contact.

11.3 Symptoms related to the physical, chemical, and toxicological characteristics

None known. Irritation of the eye if exposed. Redness of the skin if irritated

11.4 Delayed and immediate effects and chronic effects from short-term and long-term exposure

No Data Available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic life: hazard statement: H410 very toxic to aquatic life with long lasting effects.

Algae/aquatic plants: EC50 6.2 mg/l (48h) calculated value [source RIFM].

Fish/aquatic invertebrates: No additional data available.

PNECs: No additional data available.

12.2 Persistence & degradability

This substance to be considered as a readily biodegradable substance; based on its ready biodegradability, oil does not fulfil the criteria for persistence.

12.3 Bioaccumulation Potential

Hazard statement: H410 very toxic to aquatic life with long lasting effects.

12.4 Mobility in soil

This substance is considered as a readily biodegradable NCS. Based on the ready biodegradability of the NCS, simulation tests in surface water, sediment and soil are not required in accordance with column 2 of REACH Annex IX.

12.5 Results of PBT and vPvB Assessment

No data available

12.6 Other adverse effects

Do not allow product to enter streams, sewers or other waterways.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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

14.1 UN number

UN No. Road 1169

UN No. SEA 1169

UN No. AIR 1169

14.2 UN proper shipping name

Extracts, aromatic, liquid

14.3 Transport hazard class(es)

ADR/RID/ADN Not regulated for transport

ADR/RID/ADN Class - 3

IMDG Class - 3

ICAO Class/Division - 3

14.4 Packing group

ADR/RID/ADN Packing group -3

IMDG Packing group - 3

ICAO Packing group - 3

14.5 Environmental hazards

Do not allow to escape into environment, especially not into waterways, sewers or the sea.

14.6 Special precautions for user

EMS: Not allocated

Emergency Action Code: Not allocated

Hazard No. (ADR): Not allocated

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

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2 Chemical safety assessment

No additional information available.

16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	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. H410 very toxic to aquatic life with long lasting effects.
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.

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