

NISHANT AROMAS

MANUFACTURER & EXPORTERS

ADMIN. OFFICE:
425, MILAN INDUSTRIAL ESTATE,
OFF. T.J. ROAD, COTTON GREEN (W),
MUMBAI- 400 033. INDIA



FAX NO: 91-22-2471 6502
TEL OFF: 2471 0058 / 1431 / 5565
E-MAIL: nishantaromas@vsnl.com

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE

Product Name : DELTA-3-CARENE
Company Name : NISHANT AROMAS
Address : Plot-5, 6, 7 & 8, Near BIDCO Naka, Palghar (W), Pin. 401 404
Maharashtra (INDIA)
Phone No : 022 - 24715565/0058

2. COMPOSITION/INGREDIENT INFORMATION

Chemical Name : 3,7,7-trimethylbicyclo[4.1.0]hept-3-ene
Molecular Formula : C₁₀H₁₆
Molecular Weight : 136.23
CAS No : 13466-78-9

3. HAZARDOUS IDENTIFICATION

Eye Contact : May Cause eye Irritation
Skin Contact : May Cause Skin Irritation
Ingestion : May Cause irritation of digestive tract. The toxicological Properties of this substances have not been fully investigated.
Inhalation : May Cause respiratory Irritation.

4. FIRST AID MEASURES

Eye Contact : Remove any contact lenses at once. Immediately flush eyes with water or normal saline solution for 20 to 30 mins. Do Not apply any medication without specific instruction form the physician. IMMEDIATELY seek medical help..

Skin Contact : IMMEDIATELY flood affected skin with water while removing & isolating all contaminated clothing. Gently wash all affected skin thoroughly with soap and water. Obtain medical attention even if no symptoms develop and transport victim to a hospital for treatment after washing the affected areas.

Ingestion : DO NOT INDUCE VOMITING. IMMEDIATELY obtain medical attention. If the victim is conscious and not convulsing give 1 or 2 glasses of water to dilute the chemical. If the victim is convulsing or unconscious ensure that the airway is open and lay victim on side with head lower than the body. IMMEDIATLEY transport victim to hospital.

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Inhalation : Remove from the exposure to fresh air. If breathing has stopped, administer artificial respiration and oxygen if available. Contact a physician as necessary

5. FIRE FIGHTING MEASURES

Extinguishing Media : Carbon Dioxide; Dry Chemical; Universal-Type Foam.
Special firefighting Procedures : Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving essential oils or chemicals.

6. ACCIDENTAL RELEASE MEASURES

General Information : Use proper personal protective equipments as indicated in EXPOSURE CONTROLS & PERSONAL PROTECTION.
Spills/ Leaks : Clean up spills immediately. Observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation

7. HANDLING AND STORAGE

Store in a refrigerator or in a cool, dry place. Avoid exposure to air and light. Keep in tightly sealed container, preferably under an inert atmosphere.

OTHER PRECAUTIONS : Good manufacturing practices dictate that an eyewash fountain and/or safety shower should be available in the work area.

8. EXPOSURE CONTROL/ PERSONAL PROTECTION

Engineering measures : Local exhaust meeting ACGIH criteria as needed
Respirators : None generally required. Use NIOSH approved respirator in confined area or if material is rated toxic.
Eye Protection : Use goggles or face shield is recommended
Cloth : Chemical resistant clothing is recommended
Gloves : Use chemical resistant gloves is recommended
Personal protective equipment : Avoid inhalation and contact with skin and eyes. Good personal hygiene practices should be used. Wash after any contact, before breaks and meals, and at the end of the work period. Contaminated clothing and shoes should be cleaned before re-use.

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9. PHYSICAL AND CHEMICAL PROPOERTIES

Appearance & Color	: COLOURLESS CLEAR LIQUID
Odour	: SWEET CITRUS TERPENIC FIR NEEDLE
Refractive Index	: 1.471 TO 1.474 AT 20 ^o C
Specific Gravity	: 0.859 TO 0.862 AT 25 ^o C
Optical Rotation	: `+7 TO +15
Flash Point	: 46.11 °C

10. STABILITY AND REACTIVITY

Chemical Stability	: Stable under normal temperature and pressures.
Incompatibilities with other materials	: Oxidizing agents.
Hazardous Polymerization	: Has not been reported.
Hazardous Decomposition Product(s)	: Carbon monoxide, oxides if nitrogen, oxides of sulfur, Carbon dioxide
Conditions to avoid	: Incompatible materials, dust generation, strong oxidants

11. TOXICOLOGY INFORMATION

CAS	: 13466-78-9
LD 50	: Not available
Carcinogenicity	: Not listed.
Epidemiology	: No data available.
Teratogenicity	: No data available.
Reproductive effects	: No data available.
Neurotoxicity	: No data available.
Mutagencity	: No data available.
Other studies	: No data available.

12. ECOLOGICAL INFORMATION

NOT AVAILABLE

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13. DISPOSAL CONSIDERATIONS

SPILL, LEAK AND WASTE DISPOSAL PROCEDURES: Eliminate all ignition sources. Ventilate area. Contain spill and recover free product. Absorb remainder on vermiculite or other suitable absorbent material. Use of self-contained breathing apparatus is recommended for any major chemical spills. Report spills to appropriate authorities if required.

WASTE DISPOSAL METHODS: Place material and absorbent into sealed containers and dispose of in accordance with current applicable laws and regulation.

NOTE: Empty containers can have residues, gases and mists and are subject to proper waste disposal.

14. TRANSPORT INFORMATION

Land Transport : ADR/ RIC CODE/CLASS: CHEMICAL N.O.S. NOT RESTRICTED.
Maritime Transport : IMDG CODE/ CLASS: NOT RESTRICTED
Air Transport : IATA CODE/ CLASS: CHEMICAL N.O.S. NOT RESTRICTED

15. REGULATORY INFORMATION

CAS # **13466-78-9**, is listed in TSCA inventory

Health & Safety reporting List : None of the chemicals are on the Health & Safety Reporting List.

Chemical test rules : None of the chemicals of this product are under a Chemical Test rule.

Section 12B : None of the chemicals are listed under TSCA Section 12b

TSCA Significant New use rule : None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ) : None of the chemicals in this material have an RQ.

Section 302 (TPQ) : None of the chemicals in this product have a TPQ.

Section 313 : No chemicals are reportable under section 313.

Clean Air Act : This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any class 2 Ozone depleters.

Clean Water Act : None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as priority Pollutants under the CWA. None of

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the chemicals in this product are listed as toxic pollutants under the CWA

OSHA : None of the chemicals in this product are considered highly hazardous by OSHA.

STATE : CAS# 13466-78-9, is not present on state lists from CA, PA, MN, MA, FL or NJ. California No

Significant Risk Level : None of the chemicals in this product are listed.

European/International regulation

European Labeling in Accordance with EC Directives

Hazard Symbol : Not available

Risk Phrases

Safety Phrases : S 24/25 avoid contact with skin & eyes.

WSK (Water Danger/Protection): CAS# 13466-78-9: No information available.

Canada : CAS # 13466-78-9 is listed on Canada's DSL/ NDSL list.

WHMIS : Not available.

CAS# 13466-78-9 is not listed on Canada's ingredient Disclosure List.

16. DISCLAIMER

The information contained on the Material Data Sheet has been compiled from data is accurate to the best of our knowledge, however, it must be pointed out that values for certain properties are known to vary from source to source. This data is not to be construed as absolutely complete since additional data may be desirable when particular conditions or circumstances exist. It is the responsibility of the user to determine the best precautions necessary for the safe handling and use of this product for his application. This data relates only to the specific material designated and not to be used in combination with any other material. Attention of Users drawn to hazards resulting from improper use of the Product.