

ENDO N2 (Liquid)

1. NAME OF SUBSTANCE / PREPARATION AND COMPANY

Commercial names/synonyms:

ENDO N2 (*liquid*)

Manufacturer:

GHIMAS S.p.A.
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Technical informations:

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Emergency telephone number:

+39 02-6610-1029 (Centro Antiveneni Niguarda Ca' Granda - Milano)

2. HAZARDS IDENTIFICATION

Harmful if swallowed. Don't breathe the vapours. Avoid the contact with the eyes and the skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Description:

Mixture of ether oils in the proportions set out below

	%	CAS N°	Hazard statement(s)	Precautionary statement
Eugenol	77,0	97-53-0	H317 -H319	P280, P305+P351+P338
Rose oil	1,8	8007-01-0	H226	/
Lavander oil	1,2	8000-28-0	/	/
Peanut oil	20,0	8002-03-7	/	/

Information for the single components. About the hazard statements and precautionary statement see paragraph 16.

4. FIRST AID MEASURES

If it comes into contact with the eyes:

Wash immediately in plenty of water and water or physiological solution for at least 10-15 minutes.

If it comes into contact with the skin:

Remove the contaminated clothes and wash immediately in plenty of soap and water or physiological solution for at least 10-15 minutes.

If it is swallowed:

In case of persistent symptoms, consult a doctor.

If it is inhaled:

Remove the victim from the contaminated area and leave him or her to rest in a well ventilated area. If the victim has difficulty in breathing, call for a doctor immediately.

General information:

Remove contaminated clothes

5. FIRE FIGHTING MEASURES

This liquid is combustible. Extinguish with a water jet, foam, powder or carbon dioxide.

6. ACCIDENTAL RELEASE OR SPILLAGE

Stop the product reaching drains and other water channels.

Issue staff with protective clothing. Use inert material such as sand, sawdust, silcagel, etc, to soak up the liquid. Place everything in suitable containers to await disposal. Wash the area affected by the spill with plenty of water.

7. HANDLING AND STORAGE

Keep in hermetically sealed containers in a dry, well aired place.

Keep the product away from naked lights, sources of heat and oxidising agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection:

Respiratory system:

Mask to protect against the organic fumes

eyes:

Safety goggles

Skin:

Rubber gloves and apron

Personal Hygiene:

Do not eat, drink or smoke during handling. Work in premises equipped with efficient fume extraction systems

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid oil

Colour: Yellow

Odour: Eugenol Aroma

Solubility in water: Insoluble

Solubility in main organic solvent: Mixes with alcohol, chloroform and oils

pH: -

Density (water = 1): 1,02 g/cm³ (20°C)

Vapour pressure 1,5 hPa (20°C)

Melting point: -

Boiling point: >200 °C

Flash point: >110 °C

Bottom and top flash points in air (% by vol.): -

Ignition temperature: The product isn't self-inflammable

Decomposition temperature: it doesn't dissociate if used according to specifications

10. STABILITY AND REACTIVITY

Dangerous decomposition products: None if used according to specifications
Dangerous reactions: None if used according to specifications

11. TOXICOLOGICAL INFORMATION

Exposition limits:

TLV / TWA ppm = mg/m³
TLV / STEL ppm = mg/m³

ENTERS THE HUMAN BODY: Through swallowing, inhalation, touching

ACUTE TOXICITY: NO INFORMATION ABOUT THE MIXTURE IS AVAILABLE. THE INFORMATION GIVEN REFERS TO THE CONCENTRATED EUGENOL

Eugenol:	DL50 oral	rat	1930 mg/Kg
	DL50 oral	mouse	3000 mg/Kg
	DL50 intrap.	mouse	500 mg/Kg.

The substance has a low level of acute toxicity. Moderate irritant effect because of its scouring action. If inhaled, it causes irritation to the nose, mouth and throat and coughing. Only if inhaled in large quantities will it cause dyspnea, depression of the central nervous system with consequent drowsiness, disturbance of sleeping and waking patterns and have a narcotic effect. Swallowing will cause burning sensations in the digestive system, nausea, headaches and giddiness. Touching may cause local irritation and rashes, chapping, eczema and drying of the skin. The substance acts as a local anaesthetic, delaying or eliminating the perception of pain.

CHRONIC TOXICITY:

Systematic chronic toxicity of the substance is practically nonexistent. Prolonged and/or repeated exposure can cause tiredness, drowsiness, a feeling of dullness, possible respiratory difficulties and may damage the liver if taken in large quantities..

CORROSIVE IRRITANT PROPERTIES:

- For the skin: A moderate irritant effect, largely due to its scouring action. Causes rashes, chapping and eczema; the substance acts as a local anaesthetic, delaying or eliminating the perception of pain.

- For the eyes: An average irritant effect, largely due to its scouring action. Causes a 'stinging' sensation and tears: the substance may act as a local anaesthetic, delaying or eliminating the perception of pain.

IRRITANT PROPERTIES:

No experimental or epidemiological evidence of the irritant properties of the substance is available. Cases of irritation caused by the use of eugenol during treatment have been reported.

CARCINOGENESIS

Cancerogenicità – topo - Orale

Oncogenia: dubbio agente oncogeno secondo RTECS Fegato: tumori

- No experimental evidence of carcinogenic properties is available. The active principle, eugenol, is classified as IARC Group 3: the carcinogenic effect of eugenol on humans cannot be classified (animals: slight evidence - no data available for humans)

MUTAGENESIS:

No experimental evidence is available for the preparation. The active ingredient, eugenol tested positive in some tests.

TERATOGENY:

No experimental evidence of this has been recorded.

ADDITIONAL TOXICOLOGICAL INFORMATION:

If used and handled according to specifications, the product doesn't have any harmful effect, for our experience and for the gathered information

12. ECOLOGICAL INFORMATION

Dangerous for class 1 waters (German Regulation) (self classification). Follow prescribed procedures and do not discharge into the environment.

13. DISPOSAL CONSIDERATION

Dispose in accordance with regulations in force for the disposal of dangerous products.

14. TRANSPORT REGULATION

UN Number:

ADR/RID: IMDG: IATA:

UN proper shipping name

ADR/RID: IMDG: IATA: Not dangerous goods

Transport hazard class(es)

ADR/RID:- IMDG:- IATA:-

Environmental hazards

ADR/RID:- IMDG:- IATA:-

15. REGULATION INFORMATION

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16. OTHER INFORMATIONS

Hazard statements(s):	H226	Flammable liquid and vapour
	H317	May cause an allergic skin reaction
	H319	It causes serious eye irritation
Precautionary statement(s):	P280	wear gloves
	P305+P351+P338	N CASE OF EYE CONTACT: Rinse thoroughly for several minutes. Remove contact lenses if easy to do. Continue rinsing.

The data and information contained in this safety report are based on the most reliable information available at the moment that the report was drawn up. The company assumes no liability for harm to persons or damage to things that may arise from improper use of the information contained in this document.