GHIMAS spa Via Cimarosa 85 40033 Casalecchio di Reno Bologna

## MATERIAL SAFETY DATA SHEET

according to Regulation (EC) n.1907/2006

Mod. Tec. 11 Rev. 00 del 04/09/2015 Data di stampa 08/09/2015 Pag. 1/4

# ENDO N2 (Liquid)

## 1. NAME OF SUBSTANCE / PREPARATION AND COMPANY

Commercial names/synonyms:

ENDO N2 (liquid)

Manufacturer:

GHIMAS S.p.A. Via Cimarosa 85 40033 Casalecchio di Reno (BO) Tel. ++39 051 575353 Fax ++39 051 575568

Technical informations:

laboratorio@ghimas.it

Emergency telephone number:

+39 02-6610-1029 (Centro Antiveleni 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 <sup>°</sup>	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

- Hq

Density (water = 1):  $1,02 \text{ g/cm}^3$  (20°C) Vapour pressure 1,5 hPa (20°C)

Melting point:

Boiling point:  $>200 \, ^{\circ}\text{C}$  Flash point:  $>110 \, ^{\circ}\text{C}$ 

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

Ignition temperature: The product isn't self-inflammable

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

### 10. STABILITY AND REACTIVITY

Dangerous decomposition products:

None if used according to specifications

None if used according to specifications

## 11. TOXICOLOGICAL INFORMATION

**Exposition limits:** 

TLV / TWA ppm = mg/m<sup>3</sup> TLV / STEL ppm = mg/m<sup>3</sup>

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 carcenogenic 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 vapous

H317 May cause an allergic skin reaction

H319 It causes serieus eye irritation

Precautionary P280 wear gloves

statement(s):

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.

GHIMAS spa Via Cimarosa 85 40033 Casalecchio di Reno Bologna

## MATERIAL SAFETY DATA SHEET

according to Regulation (EC) n.1907/2006

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# ENDO N2 (powder)

## 1. NAME OF SUBSTANCE / PREPARATION AND COMPANY

Commercial names / synonyms ENDO N2 (powder)

Manufacturer: GHIMAS S.p.A. Via Cimarosa 85 40033 Casalecchio di Reno (BO) Tel. ++39 051 575353 Fax ++39 051 575568

Technical information: laboratorio@ghimas.it

Emergency telephone number:

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

## 2. POSSIBLE HAZARDS

Harmful if inhale or in contact with the skin. Irritates eyes, skin and respiratory tract. Possible irreversible damage - limited evidence.

Use the product according the prescription

## 3. COMPOSITION / INFORMATION ON CONSTITUENTS

Description: mixture of solids in the proportions set out

Components	%	CAS N°	Hazard statement(s)	Precautionary statement(s)
Zinc oxide	65-66	1314-13-2	H410	P273, P501
Zinc stearate	0,074	557-05-1	-	-
Dehydrated zinc	0,074	5970-45-6	H302,H319, H410	P273, P305+P351+P338,P501
acetate				
Paraformaldhyde	4,0	30525-89-4	H228,H302+H332,H315,	P210,P261,P280,
-			H317,H318,H335,H351	P305+P351+P338
Titanium dioxide	4 - 5	13463-67-7	-	-
Basic bismut	10,1	5892-10-4	-	-
subcarbonate				
Basic bismuth	15,1	1304-85-4	H272, H315, H319, H335	P220, P261, P305 + P351 +
subnitrate				P338
Ferrous oxide	0,1-0,2	1309-37-1	H315, H319, H335	P261, P305 + P351 + P338

About the hazard statements and precautionary statements see paragrah 16

### 4. FIRST AID MEASURES

- If it comes into contact with the eyes:

Wash immediately in plenty of water or physiological solution for at least 10-15 minutes. In case consult a doctor

- If it comes into contact with the skin:

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

Extinguish with a water jet, foam, powder. Provide workers with appropriate protective equipment for respiratory system.

## 6. ACCIDENTAL RELASE OR SPILLAGE

Issue staff with protective clothing. Stop the powder from spreading and then gather it up into containers for disposal. Wash the affected area with plenty of water and ensure that the area is adequately ventilated.

### 7. HANDLING AND STORAGE

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

The product is not a fuel but should nevertheless be kept away from sources of heat or flammable substances.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection:

Respiratory system: Mask

Eyes: Safety goggles

Skin: Rubber gloves and apron

Personal hygiene: Do not eat, drink or smoke during handling. Immediately remove all the contaminated

clothes. Wash the hands during the breaks and at the end of work

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Powdery solid

Colour: Pink

Odour: Pungent smell of formaldhyde

Solubility in water: Partially, when heated

Solubility in main organic solvents:

Solubilità in organic acids soluble

Density (water = 1):

Specific weight of vapours (air=1)

Melting point: >1000 °C

Boiling point:

Flash point: Not applicable

Bottom and top flash points in air (% by

volume):

Ignition temperature: the product are not self igniting

Vapor pressure:

Decomposition temperature: None if used according to specification

Solvent content 0.0% Solid content 100%

## 10. STABILITY AND REACTIVITY

Dangerous decomposition products:

None if used according to specifications

None if used according to specifications

### 11. TOXICOLOGICAL INFORMATION

**Exposure limits** 

ENTERS THE HUMAN BODY Through swallowing, inhalation, touching

ACUTE TOXICITY: NO INFORMATION ABOUT THE MIXTURE IS AVAILABLE. THE INFORMATION GIVEN REFERS TO THE ACTIVE COMPONENT

Paraformaldhyde DL50 oral rat 592mg/Kg

The presence of Paraformaldhyde in the product may cause a burning sensation, coughing, laryngitis, breathlessness, headaches, nausea and vomiting. It may provoke allergic reactions in the respiratory system and on the skin

### **CORROSIVE IRRITANT PROPERTIES:**

For the skin:

The preparation irritates the skin and causes local rashes and irritation

-For the respiratory system:

The preparation irritates the respiratory system

- For the eyes:

The preparation irritates the mucous of the eye

## **IRRITANT PROPERTIES:**

The preparation has irritant proprieties and causes reactions in the skin and the respiratory apparatus

### **CARCINOGENESIS**

No experimental or epidemiological evidence is available for the preparation.

The decomposition product of paraformaldehyde, has been listed as a carcinogen by NTP and IARC.

### **MUTAGENESIS**

No experimental evidence is available for the preparation.

#### **TERATOGENY**

No experimental evidence of this has been recorded.

## 12. ECOLOGICAL INFORMATION

Dangerous for class 0 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

Transport by road and rail:

ADR/RID: Class Page CT/RAIL Category Page

Transport by sea

IMDG CODE: UN n° 3077 Class Page

Transport by air

ICAO/IATA: UN nº 3077 Class Page

### 15. REGULATORY INFORMATION

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## 16. OTHER INFORMATIONS

Hazard statement(s):	H410	Very toxic to aquatic life with long lasting effec	ts

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H228 Flammable solid.

H272 May intensify fire; oxidiser

H302+H332 Harmful if swallowed or if inhaled

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.

Precautionary P210 Keep away from heat/sparks/open flames/hot surfaces. - No

statement(s): smoking.

P220 Keep/Store away from clothing/ combustible materials.

P261 Avoid breathing dust.

P273 Avoid release to the environment

P280 Wear protective gloves/ eye protection/ face protection.

P501 Dispose of contents/ container to an approved waste disposal

plant.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

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