



# Tenax Spa

## INDURENTE KATTER 50

Revision nr.1  
Dated 9/28/2015  
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### Safety data sheet according to U.S.A. Federal Hazcom 2012

#### SECTION 1. Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Product name **INDURENTE KATTER 50**  
Chemical name and synonym **INDURENTE EPOSSIDICO DI TIPO AMMINICO ALIFATICO**

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use **LIQUID EPOXY HARDENER.**

##### 1.3. Details of the supplier of the safety data sheet

Name **Tenax Spa**  
Full address **Via I Maggio, 226**  
District and Country **37020 Volargne (VR)**  
**Italy**  
Tel. **+39 045 6887593**  
Fax **+39 045 6862456**

e-mail address of the competent person responsible for the Safety Data Sheet **msds@tenax.it**

Product distribution by **TENAX USA – 7606 Whitehall Executive Center Drive - Unit 400 - Charlotte NC 28273 Tel. +1 704-583-1173 - Tel: (800) 341 0432 - Fax +1 704-583-3166 - info@tenaxusa.com**

##### 1.4. Emergency telephone number

For urgent inquiries refer to **1-800-5355053 (1-352-323-3500 international)**

#### SECTION 2. Hazards identification.

##### 2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200). The product thus requires a safety datasheet.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

##### Classification and Hazard Statement.

Reproductive toxicity, category 2  
Acute toxicity, category 4  
Skin corrosion, category 1B  
Serious eye damage, category 1  
Skin sensitization, category 1

Suspected of damaging fertility or the unborn child.  
Harmful if swallowed.  
Causes severe skin burns and eye damage.  
Causes serious eye damage.  
May cause an allergic skin reaction.

##### Hazard pictograms:



Signal words: **Danger**

##### Hazard statements:

**H361** Suspected of damaging fertility or the unborn child.  
**H302** Harmful if swallowed.  
**H314** Causes severe skin burns and eye damage.  
**H317** May cause an allergic skin reaction.

##### Precautionary statements:

##### Prevention:

**P201** Obtain special instructions before use.  
**P202** Do not handle until all safety precautions have been read and understood.  
**P260** Do not breathe dust / fume / gas / mist / vapours / spray.  
**P264** Wash . . . thoroughly after handling.  
**P270** Do not eat, drink or smoke when using this product.



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### SECTION 2. Hazards identification. ... / >>

**P272** Contaminated work clothing should not be allowed out of the workplace.  
**P280** Wear protective gloves / clothing and eye / face protection.

**Response:**  
**P301+P312** IF SWALLOWED: call a POISON CENTER / doctor / . . . / if you feel unwell.  
**P301+P330+P331** IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
**P302+P352** IF ON SKIN: wash with plenty of water / . . .  
**P303+P361+P353** IF ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water / shower.  
**P304+P340** IF INHALED: remove person to fresh air and keep comfortable for breathing.  
**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P310** Immediately call a POISON CENTER / doctor / . . .  
**P330** Rinse mouth.  
**P363** Wash contaminated clothing before reuse.

**Storage:**  
**P405** Store locked up.

**Disposal:**  
**P501** Dispose of contents / container according to applicable law.

#### 2.2. Other hazards.

Environmental classification as for Reg. (EU) 1272/2008 (CLP):

The product is classified as hazardous for environment pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).

#### Classification and Hazard Statement.

Hazardous to the aquatic environment, acute toxicity, category 1  
Hazardous to the aquatic environment, chronic toxicity, category 1

Very toxic to aquatic life.  
Very toxic to aquatic life with long lasting effects.

#### Hazard pictograms:



**Signal words:** Warning

**Hazard statements:**  
**H400** Very toxic to aquatic life.  
**H410** Very toxic to aquatic life with long lasting effects.

#### Precautionary statements:

**Prevention:**  
**P273** Avoid release to the environment.

**Response:**  
**P391** Collect spillage.  
--

**Storage:**  
--

**Disposal:**  
**P501** Dispose of contents / container according to applicable law.  
--

Additional hazards.

### SECTION 3. Composition/information on ingredients.

#### 3.1. Substances.

Information not relevant.

#### 3.2. Mixtures.

##### Contains:

| Identification.   | Conc. %. | Classification:   |
|---|----------|---|
| <b>NONYL PHENOL</b><br>CAS. 25154-52-3                                | 30 - 50  | Reproductive toxicity, category 2 H361fd, Acute toxicity, category 4 H302, Skin corrosion, category 1B H314, Hazardous to the aquatic environment, acute toxicity, category 1 H400 M=1, Hazardous to the aquatic environment, chronic toxicity, category 1 H410 |
| <b>2-Piperazino-1-ethylamine</b><br>CAS. 140-31-8                     | 30 - 50  | Acute toxicity, category 3 H311, Acute toxicity, category 4 H302, Skin corrosion, category 1B H314, Skin sensitization, category 1 H317, Hazardous to the aquatic environment, chronic toxicity, category 3 H412  |
| <b>BENZYL ALCOHOL</b><br>CAS. 100-51-6                                | 5 - 10   | Acute toxicity, category 4 H302, Acute toxicity, category 4 H332  |
| <b>3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE</b><br>CAS. 2855-13-2 | 2.5 - 5  | Acute toxicity, category 4 H302, Acute toxicity, category 4 H312, Skin corrosion, category 1B H314, Skin sensitization, category 1 H317, Hazardous to the aquatic environment, chronic toxicity, category 3 H412  |



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### SECTION 3. Composition/information on ingredients. ... / >>

#### 2,2'-DIAMINODIETHYLAMINE

CAS. 111-40-0 3 - 5

Acute toxicity, category 4 H302, Acute toxicity, category 4 H312, Skin corrosion, category 1B H314, Skin sensitization, category 1 H317

Note: Upper limit is not included into the range.  
The full wording of hazard (H) phrases is given in section 16 of the sheet.

### SECTION 4. First aid measures.

#### 4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

### SECTION 5. Firefighting measures.

#### 5.1. Extinguishing media.

##### SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

##### UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

#### 5.2. Special hazards arising from the substance or mixture.

##### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

#### 5.3. Advice for firefighters.

##### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

##### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

### SECTION 6. Accidental release measures.

#### 6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10.

Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.



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### SECTION 7. Handling and storage.

#### 7.1. Precautions for safe handling.

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

#### 7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s).

Information not available.

### SECTION 8. Exposure controls/personal protection.

#### 8.1. Control parameters.

Regulatory References:

|     |              |  |
|-----|--------------|--|
| USA | NIOSH-REL    | NIOSH publication No. 2005-149, 3th printing, 2007.  |
| USA | CAL/OSHA-PEL | California Division of Occupational Safety and Health (Cal-OSHA) Permissible Exposure Limits (PELs). |

Information not available.

#### 8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must comply with current regulations.

Provide an emergency shower with face and eye wash station.

##### HAND PROTECTION

Protect hands with category III work gloves (OSHA 29 CFR 1910.138).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

##### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

##### EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

##### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a NIOSH certified filter, whose class must be chosen according to the limit of use concentration (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus or external air-intake breathing apparatus. For a correct choice of respiratory protection device, see standard NIOSH 42 CFR 84 and OSHA 29 CFR 1910.134.

##### ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

### SECTION 9. Physical and chemical properties.

#### 9.1. Information on basic physical and chemical properties.

|                                 |                |
|---------------------------------|----------------|
| Appearance                      | liquid         |
| Colour                          | colourless     |
| Odour                           | amino          |
| Odour threshold.                | Not available. |
| pH.                             | Not available. |
| Melting point / freezing point. | Not available. |



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### SECTION 9. Physical and chemical properties. ... / >>

|  |                            |
|--|----------------------------|
| Initial boiling point.                 | Not available.             |
| Boiling range.                         | Not available.             |
| Flash point.                           | > 130 °C. (266 °F)         |
| Evaporation rate                       | Not available.             |
| Flammability (solid, gas)              | Not available.             |
| Lower inflammability limit.            | Not available.             |
| Upper inflammability limit.            | Not available.             |
| Lower explosive limit.                 | Not available.             |
| Upper explosive limit.                 | Not available.             |
| Vapour pressure.                       | Not available.             |
| Vapour density                         | Not available.             |
| Relative density.                      | 1 Kg/l                     |
| Solubility                             | partially soluble in water |
| Partition coefficient: n-octanol/water | Not available.             |
| Auto-ignition temperature.             | Not available.             |
| Decomposition temperature.             | Not available.             |
| Viscosity                              | Not available.             |
| Explosive properties                   | Not available.             |
| Oxidising properties                   | Not available.             |

#### 9.2. Other information.

|                |          |
|----------------|----------|
| Solid content. | 100,00 % |
|----------------|----------|

### SECTION 10. Stability and reactivity.

#### 10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

BENZYL ALCOHOL: decomposes at temperatures higher than 870°C/1598°F with possibility of explosion.

#### 10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

BENZYL ALCOHOL: may react dangerously with: hydrobromic acid and iron in the presence of heat, oxidising agents and sulphuric acid. Risk of explosion on contact with: phosphorus trichloride.

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE: can react dangerously with strong oxidising agents and concentrated acids.

#### 10.4. Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected.

BENZYL ALCOHOL: avoid exposure to the air, sources of heat and naked flames.

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE: avoid contact with strong oxidising agents and acids.

#### 10.5. Incompatible materials.

BENZYL ALCOHOL: sulphuric acid, oxidising substances and aluminium.

#### 10.6. Hazardous decomposition products.

Information not available.

### SECTION 11. Toxicological information.

#### 11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

This product must be handled carefully because of its possible teratogenic effects, which may reduce human fertility or because of its possible teratogenic effects, which may be toxic and damage the foetus development.

Acute effects: ingestion of this product is harmful. Even small amounts of product may cause serious health problems (stomach pain, nausea, sickness, diarrhoea).

This product is corrosive and causes serious burns and vesicles on the skin, which can arise even after exposure. Burns are very stinging and painful. Upon contact with eyes, it may cause serious harm, such as cornea opacity, iris lesions, irreversible eye coloration.

The vapors and/or powders are caustic for the respiratory system and may cause pulmonary edema, whose symptoms sometimes arise only after some hours. Exposure symptoms may include: sting, cough, asthma, laryngitis, respiratory disorders, headache, nausea and sickness. If swallowed, it may cause mouth, throat and oesophagus burns, sickness, diarrhoea, edema, larynx swelling and, consequently, asphyxia. Perforation of the gastro-intestinal tract is also possible.

This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.



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### SECTION 11. Toxicological information. ... / >>

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurvies, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scuffy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

2-Piperazino-1-ethylamine  
LD50 (Oral). > 1470 mg/kg rat  
LD50 (Dermal). 866 mg/kg rabbit

NONYL PHENOL  
LD50 (Oral). 580 mg/kg Rat  
LD50 (Dermal). 2031 mg/kg Rabbit

BENZYL ALCOHOL  
LD50 (Oral). 1230 mg/kg Rat  
LD50 (Dermal). 2000 mg/kg Rabbit  
LC50 (Inhalation). > 4.1 mg/l/4h Rat

2,2'-DIAMINODIETHYLAMINE  
LD50 (Oral). 1140 mg/kg Rat  
LD50 (Dermal). 1045 mg/kg Rabbit  
LC50 (Inhalation). 1.8 mg/l/4h Rat

### SECTION 12. Ecological information.

This product is dangerous for the environment and highly toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment.

#### 12.1. Toxicity.

2-Piperazino-1-ethylamine  
LC50 - for Fish. 368 mg/l/96h *poecilia reticulata*  
EC50 - for Crustacea. > 32 mg/l/48h *daphnia magna*  
EC50 - for Algae / Aquatic Plants. 494 mg/l/72h *Scenedesmus capricornutum*

NONYL PHENOL  
LC50 - for Fish. 0.19 mg/l/96h *Oncorhynchus mykiss*  
EC50 - for Crustacea. 0.19 mg/l/48h *Daphnia magna*  
EC50 - for Algae / Aquatic Plants. 1.48 mg/l/72h *Pseudokirchneriella subcapitata*

#### 12.2. Persistence and degradability.

2-Piperazino-1-ethylamine  
Biodegradability: Information not available.

BENZYL ALCOHOL  
Rapidly biodegradable.

2,2'-DIAMINODIETHYLAMINE  
Solubility in water. mg/l 1000 - 10000  
Rapidly biodegradable.

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE  
Solubility in water. mg/l 1000 - 10000  
NOT rapidly biodegradable.

#### 12.3. Bioaccumulative potential.

BENZYL ALCOHOL  
Partition coefficient: n-octanol/water. 1.1

2,2'-DIAMINODIETHYLAMINE  
Partition coefficient: n-octanol/water. -5.58



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### SECTION 12. Ecological information. ... / >>

#### 12.4. Mobility in soil.

2,2'-DIAMINODIETHYLAMINE  
Partition coefficient: soil/water. 3.4

#### 12.5. Results of PBT and vPvB assessment.

Information not available.

#### 12.6. Other adverse effects.

Information not available.

### SECTION 13. Disposal considerations.

#### 13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to dangerous goods transport regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### SECTION 14. Transport information.

#### 14.1. UN number.

ADR / RID, IMDG, IATA: 2735

#### 14.2. UN proper shipping name.

ADR / RID: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.  
(3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE; NONYL PHENOL)  
IMDG: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.  
(3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE; NONYL PHENOL)  
IATA: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.  
(3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE; NONYL PHENOL)

#### 14.3. Transport hazard class(es).

ADR / RID: Class: 8 Label: 8



IMDG: Class: 8 Label: 8



IATA: Class: 8 Label: 8



#### 14.4. Packing group.

ADR / RID, IMDG, IATA: II



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### SECTION 14. Transport information. ... / >>

#### 14.5. Environmental hazards.

ADR / RID: Environmentally Hazardous.



IMDG: Marine Pollutant.



IATA: NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

#### 14.6. Special precautions for user.

|            |                       |                         |                             |
|------------|-----------------------|-------------------------|-----------------------------|
| ADR / RID: | HIN - Kemler: 80      | Limited Quantities LQ22 | Tunnel restriction code (E) |
| IMDG:      | Special Provision: -  | Limited Quantities LQ22 |                             |
| IATA:      | EMS: F-A, S-B         | Maximum quantity: 30 L  | Packaging instructions: 855 |
|            | Cargo:                | Maximum quantity: 1 L   | Packaging instructions: 851 |
|            | Pass.:                | A3                      |                             |
|            | Special Instructions: |                         |                             |

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code.

Information not relevant.

### SECTION 15. Regulatory information.

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

U.S. Federal Regulations:

TSCA:

All components are listed on TSCA Inventory.

Clean Air Act Section 112(b):

No component(s) listed.

Clean Air Act Section 602 Class I Substances:

No component(s) listed.

Clean Air Act Section 602 Class II Substances:

No component(s) listed.

Clean Water Act – Priority Pollutants:

No component(s) listed.

Clean Water Act – Toxic Pollutants:

No component(s) listed.

DEA List I Chemicals (Precursor Chemicals):

No component(s) listed.

DEA List II Chemicals (Essential Chemicals):

No component(s) listed.

EPA List of Lists:

313 Category Code:

No component(s) listed.

EPCRA 302 EHS TPQ:

No component(s) listed.

EPCRA 304 EHS RQ:

No component(s) listed.

CERCLA RQ:

No component(s) listed.





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### SECTION 15. Regulatory information. ... / >>

EPCRA 313 TRI:  
No component(s) listed.

RCRA Code:  
No component(s) listed.

CAA 112 (r) RMP TQ:  
No component(s) listed.

State Regulations.

Massachusetts:

|            |                          |
|------------|--------------------------|
| 140-31-8   |                          |
| 25154-52-3 | NONYL PHENOL (Phenols)   |
| 100-51-6   | BENZYL ALCOHOL           |
| 111-40-0   | 2,2'-DIAMINODIETHYLAMINE |

Minnesota:

|          |                          |
|----------|--------------------------|
| 100-51-6 | BENZYL ALCOHOL           |
| 111-40-0 | 2,2'-DIAMINODIETHYLAMINE |

New Jersey:

|           |  |
|-----------|--|
| 140-31-8  |  |
| 111-40-0  | 2,2'-DIAMINODIETHYLAMINE                     |
| 2855-13-2 | 3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE |

New York:

No component(s) listed.

Pennsylvania:

|            |                          |
|------------|--------------------------|
| 140-31-8   |                          |
| 25154-52-3 | NONYL PHENOL (Phenols)   |
| 100-51-6   | BENZYL ALCOHOL           |
| 111-40-0   | 2,2'-DIAMINODIETHYLAMINE |

California:

|            |                          |
|------------|--------------------------|
| 25154-52-3 | NONYL PHENOL (Phenols)   |
| 111-40-0   | 2,2'-DIAMINODIETHYLAMINE |

Proposition 65:

This product does not contain any substances know to the State of California to cause cancer, reproductive harm or birth defects.

International Regulations.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

NONYL PHENOL - ()

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Canadian WHMIS.

Information not available.

### SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

|                          |  |
|--------------------------|--|
| <b>Repr. 2</b>           | Reproductive toxicity, category 2                                  |
| <b>Acute Tox. 3</b>      | Acute toxicity, category 3   |
| <b>Acute Tox. 4</b>      | Acute toxicity, category 4   |
| <b>Skin Corr. 1B</b>     | Skin corrosion, category 1B  |
| <b>Skin Corr. 1C</b>     | Skin corrosion, category 1C  |
| <b>Eye Dam. 1</b>        | Serious eye damage, category 1                                     |
| <b>Eye Irrit. 2</b>      | Eye irritation, category 2   |
| <b>Skin Irrit. 2</b>     | Skin irritation, category 2  |
| <b>Skin Sens. 1</b>      | Skin sensitization, category 1                                     |
| <b>Aquatic Acute 1</b>   | Hazardous to the aquatic environment, acute toxicity, category 1   |
| <b>Aquatic Chronic 1</b> | Hazardous to the aquatic environment, chronic toxicity, category 1 |
| <b>Aquatic Chronic 2</b> | Hazardous to the aquatic environment, chronic toxicity, category 2 |
| <b>Aquatic Chronic 3</b> | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| <b>Aquatic Chronic 4</b> | Hazardous to the aquatic environment, chronic toxicity, category 4 |
| <b>H361</b>              | Suspected of damaging fertility or the unborn child.               |



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|        |  |
|--------|--|
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H311   | Toxic in contact with skin.  |
| H302   | Harmful if swallowed.  |
| H312   | Harmful in contact with skin.  |
| H332   | Harmful if inhaled.  |
| H314   | Causes severe skin burns and eye damage.                                 |
| H318   | Causes serious eye damage.   |
| H319   | Causes serious eye irritation.   |
| H315   | Causes skin irritation.  |
| H317   | May cause an allergic skin reaction.                                     |
| H400   | Very toxic to aquatic life.  |
| H410   | Very toxic to aquatic life with long lasting effects.                    |
| H411   | Toxic to aquatic life with long lasting effects.                         |
| H412   | Harmful to aquatic life with long lasting effects.                       |
| H413   | May cause long lasting harmful effects to aquatic life.                  |

#### LEGEND:

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAA 112 ® RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112®)
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)
- CLP: EC Regulation 1272/2008
- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency
- EPCRA: Emergency Planning and Community Right-to Know Act
- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- RCRA Code: Resource Conservation and Recovery Act Code
- REL: Recommended exposure limit
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TSCA: Toxic Substances Control Act
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

#### GENERAL BIBLIOGRAPHY:

- GHS rev. 3
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh - Registry of Toxic Effects of Chemical Substances
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
  
- 6 NYCRR part 597
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Communication Standard (HCS 2012)



# Tenax Spa

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- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act
- Massachusetts 105 CMR Department of public health 670.000: "Right to Know"
- Minnesota Chapter 5206 Department Of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Pennsylvania, Hazardous Substance List, Chapter 323

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.