



# Tenax Spa

## RIVO 15 PART B

Revision nr.1  
Dated 5/14/2021  
First compilation  
Printed on 5/14/2021  
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### Safety Data Sheet

According to Canadian HPR - WHMIS 2015

#### 1. Identification

##### 1.1. Product identifier

Product name **RIVO 15 PART B**  
Chemical name and synonym **EPOXY GLUE WITH LIQUID CORROSIVE AMINES**

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

Intended use **EPOXY GLUE PART B.**

Identified Uses	Industrial	Professional	Consumer
ADHESIVE SYSTEM/TREATMENT FOR STONE SECTOR	-	✓	-

##### 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 Suite 400, 28273 Charlotte NC, US**  
Tel. 001 7045831173 - Fax 001 7045833166  
**info@tenaxusa.com**

##### 1.4. Emergency telephone number

For urgent inquiries refer to **24hrs:**  
**Manitoba Poison Centre 1-855-7POISON (1-855-776-4766)**  
**BC Drug and Poison Information Centre (DPIC)**  
**1-800-567-8911 (toll free in BC)**  
**(604) 682-5050 (Greater Vancouver or outside of BC)**  
**Centre antipoison du Québec 1-800-463-5060**  
**IWK Regional Poison Centre**  
**1-800-565-8161 (within NS and PEI only)**  
**(902) 470-8161 (Halifax or outside NS, PEI)**  
**Poison And Drug Information Services (PADIS)**  
**1-800-332-1414 (toll free in Alberta, Northwest Territories)**  
**1-866-454-1212 (toll free in Saskatchewan)**  
**(403) 944-1414 (in Calgary, outside of Alberta, or VOIP users)**  
**Ontario Poison Centre 1-800-268-9017**

#### 2. Hazards identification

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

The product is classified as hazardous pursuant to the provisions set forth in Canada's Hazardous Products Regulations (HPR) (WHMIS 2015). 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.

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

### Classification and Hazard Statement

Reproductive toxicity, category 2  
Acute toxicity, category 3  
Acute toxicity, category 4  
Skin corrosion, category 1  
Serious eye damage, category 1  
Skin sensitization, category 1

Suspected of damaging fertility or the unborn child.  
Toxic if inhaled.  
Harmful in contact with skin.  
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.  
**H331** Toxic if inhaled.  
**H312** Harmful in contact with skin.  
**H314** Causes severe skin burns and eye damage.  
**H317** May cause an allergic skin reaction.

### Precautionary statements:

#### Prevention:

**P260** Do not breathe dust / fume / gas / mist / vapours / spray.  
**P202** Do not handle until all safety precautions have been read and understood.  
**P201** Obtain special instructions before use.  
**P280** Wear protective gloves/ protective clothing / eye protection / face protection.  
**P271** Use only outdoors or in a well-ventilated area.  
**P264** Wash the hands thoroughly after handling.  
**P272** Contaminated work clothing should not be allowed out of the workplace.

#### Response:

**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P301+P330+P331** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
**P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
**P310** Immediately call a POISON CENTER / doctor / . . .  
**P304+P340** IF INHALED: remove person to fresh air and keep comfortable for breathing.  
**P362+P364** Take off contaminated clothing and wash it before reuse.  
**P363** Wash contaminated clothing before reuse.

#### Storage:

**P403+P233** Store in a well-ventilated place. Keep container tightly closed.  
**P405** Store locked up.

#### Disposal:

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

The mixture contains 88.31%;57.31% of components of unknown acute inhalation / dermal toxicity.

## 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:





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

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.

### 3. Composition/information on ingredients

#### 3.2. Mixtures

Contains:

Identification	x = Conc. % (w/w)	Classification:
<b>4-nonylphenol, branched</b> CAS 84852-15-3	$15 \leq x < 16$	Reproductive toxicity, category 2 H361, Acute toxicity, category 4 H302, Skin corrosion, category 1B H314, Serious eye damage, category 1 H318, Hazardous to the aquatic environment, acute toxicity, category 1 H400 M=10, Hazardous to the aquatic environment, chronic toxicity, category 1 H410 M=10
<b>2-Piperazin-1-ylethylamine</b> AEP CAS 140-31-8	$12.5 \leq x < 13.5$	Acute toxicity, category 3 H311, Acute toxicity, category 4 H302, Skin corrosion, category 1B H314, Serious eye damage, category 1 H318, Skin sensitization, category 1 H317, Hazardous to the aquatic environment, chronic toxicity, category 3 H412
<b>BENZYL ALCOHOL</b> BENZYL ALCOHOL CAS 100-51-6	$3 \leq x < 3.5$	Acute toxicity, category 4 H302, Acute toxicity, category 4 H332
<b>3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE</b> ISOPHORONE DIAMINE IPDA CAS 2855-13-2	$1 \leq x < 1.5$	Acute toxicity, category 4 H302, Acute toxicity, category 4 H312, Skin corrosion, category 1B H314, Serious eye damage, category 1 H318, Skin sensitization, category 1 H317, Hazardous to the aquatic environment, chronic toxicity, category 3 H412
<b>2,2'-DIAMINODIETHYLAMINE</b> DIETHYLENETRIAMINE DETA CAS 111-40-0	$1 \leq x < 1.5$	Acute toxicity, category 2 H330, Acute toxicity, category 4 H302, Acute toxicity, category 4 H312, Skin corrosion, category 1B H314, Serious eye damage, category 1 H318, Specific target organ toxicity - single exposure, category 3 H335, Skin sensitization, category 1 H317

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

### 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.



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### 4. First-aid measures ... / >>

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

### 5. Fire-fighting 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).

### 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. 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.

### 7. Handling and storage

#### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.



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### 7. Handling and storage ... / >>

#### 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. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

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

Information not available

### 8. Exposure controls/personal protection

#### 8.1. Control parameters

Regulatory References:

TLV-ACGIH

ACGIH 2020

#### 2,2'-DIAMINODIETHYLAMINE

##### Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
TLV-ACGIH	-	4.2	1			SKIN

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

#### 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.

##### 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 I professional long-sleeved overalls and safety footwear. Wash body with soap and water after removing protective clothing.

##### EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133, CSA Standard CAN/CSA-Z94.3-92).

##### 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, CSA Standard Z94.4-02). 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, OSHA 29 CFR 1910.134, CSA Standard Z94.4-02.

##### 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.

### 9. Physical and chemical properties

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

Properties	Value	Information
Appearance	paste	
Colour	COLOURED	
Odour	amino	
Odour threshold	Not available	
pH	9	
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	



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

Flash point	> 93 °C	(199,4 °F)
Evaporation Rate	Not available	
Flammability of solids and gases	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	1.4	g/cc
Solubility	insoluble 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

Information not available

### 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 above 870°C/1598°F. 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, iron, oxidising agents, sulphuric acid. Risk of explosion on contact with: phosphorus trichloride.

##### 3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

May react dangerously with: strong oxidising agents, concentrated inorganic 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: air, sources of heat, naked flames.

##### 3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

Avoid contact with: strong acids, strong oxidants.

#### 10.5. Incompatible materials

##### BENZYL ALCOHOL

Incompatible with: sulphuric acid, oxidising substances, aluminium.

#### 10.6. Hazardous decomposition products

Information not available

### 11. Toxicological information

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.

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information



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

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

#### ACUTE TOXICITY

2-Piperazin-1-ylethylamine

LD50 (Oral) > 1470 mg/kg rat

LD50 (Dermal) 866 mg/kg rabbit

4-nonylphenol, branched

LD50 (Oral) 1620 mg/kg rat

LD50 (Dermal) 2140 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) 1620 mg/kg Rat

LD50 (Dermal) 1045 mg/kg Rabbit

LC50 (Inhalation) 0.3 mg/l/4h Rat

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

LD50 (Oral) 1030 mg/kg rat

#### SKIN CORROSION / IRRITATION

Corrosive for the skin

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

#### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

#### REPRODUCTIVE TOXICITY

Suspected of damaging fertility or the unborn child

#### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

#### STOT - REPEATED EXPOSURE



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

Does not meet the classification criteria for this hazard class

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

### 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-Piperazin-1-ylethylamine

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

##### 4-nonylphenol, branched

LC50 - for Fish	0.017 mg/l/96h marine water fish
EC50 - for Crustacea	0.051 mg/l/48h marine invertebrates
EC50 - for Algae / Aquatic Plants	0.027 mg/l/72h marine water algae
Chronic NOEC for Fish	0.00046 mg/l marine water fish
Chronic NOEC for Crustacea	0.00946 mg/l marine invertebrates
Chronic NOEC for Algae / Aquatic Plants	0.5 mg/l marine water algae

##### BENZYL ALCOHOL

LC50 - for Fish	770 mg/l/96h Pimephales promelas
EC50 - for Crustacea	230 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	770 mg/l/72h Pseudokirchneriella subcapitata
Chronic NOEC for Crustacea	51 mg/l Daphnia magna

##### 2,2'-DIAMINODIETHYLAMINE

LC50 - for Fish	430 mg/l/96h pimephales promelas
EC50 - for Crustacea	32 mg/l/48h daphnia magna
EC50 - for Algae / Aquatic Plants	1164 mg/l/72h algae
Chronic NOEC for Fish	> 10 mg/l pesce
Chronic NOEC for Crustacea	5.6 mg/l daphnia magna
Chronic NOEC for Algae / Aquatic Plants	10 mg/l algae

##### 3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

LC50 - for Fish	110 mg/l/96h Leuciscus idus
EC50 - for Crustacea	23 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 50 mg/l/72h Scenedesmus subspicatus





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

EC10 for Algae / Aquatic Plants	11.2 mg/l/72h Scenedesmus subspicatus
Chronic NOEC for Crustacea	3 mg/l 21 d

#### 12.2. Persistence and degradability

2-Piperazin-1-ylethylamine  
Degradability: information not available

4-nonylphenol, branched  
Rapidly degradable

BENZYL ALCOHOL  
Rapidly degradable

2,2'-DIAMINODIETHYLAMINE

Solubility in water	1000 - 10000 mg/l
Degradability: information not available	
Rapidly degradable	

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

Solubility in water	1000 - 10000 mg/l
NOT rapidly degradable	

#### 12.3. Bioaccumulative potential

4-nonylphenol, branched

Partition coefficient: n-octanol/water	5.4
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BCF	> 260
-----	-------

BENZYL ALCOHOL

Partition coefficient: n-octanol/water	1.1
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2,2'-DIAMINODIETHYLAMINE

Partition coefficient: n-octanol/water	-5.58
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#### 12.4. Mobility in soil

4-nonylphenol, branched

Partition coefficient: soil/water	> 22
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2,2'-DIAMINODIETHYLAMINE

Partition coefficient: soil/water	3.4
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#### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

#### 12.6. Other adverse effects

Information not available



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### 13. Disposal considerations

#### 13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.  
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.  
**CONTAMINATED PACKAGING**  
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### 14. Transport information

#### 14.1. UN number

ADR / RID, IMDG, IATA: 1760

#### 14.2. UN proper shipping name

ADR / RID: CORROSIVE LIQUID, N.O.S. (4-nonylphenol, branched; 2-Piperazin-1-ylethylamine)  
IMDG: CORROSIVE LIQUID, N.O.S. (4-nonylphenol, branched; 2-Piperazin-1-ylethylamine)  
IATA: CORROSIVE LIQUID, N.O.S. (4-nonylphenol, branched; 2-Piperazin-1-ylethylamine)

#### 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: III

#### 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: 5 L	Tunnel restriction code: (E)
	Special provision: -		
IMDG:	EMS: F-A, S-B	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 856
	Pass.:	Maximum quantity: 5 L	Packaging instructions: 852
	Special provision:	A3, A803	

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant



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### 15. Regulatory information

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

Substances subject to the Rotterdam Convention:  
None

Canadian Regulatory Information

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).

Safety Data Sheet according to WHMIS 2015.

Inventory Status of the contained substance/s.

All ingredients are listed in DSL.

### 16. Other information

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

<b>H361</b>	Suspected of damaging fertility or the unborn child.
<b>H330</b>	Fatal if inhaled.
<b>H311</b>	Toxic in contact with skin.
<b>H331</b>	Toxic if inhaled.
<b>H302</b>	Harmful if swallowed.
<b>H312</b>	Harmful in contact with skin.
<b>H332</b>	Harmful if inhaled.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H335</b>	May cause respiratory irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful to aquatic life with long lasting effects.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CLP: EC Regulation 1272/2008
- EmS: Emergency Schedule
- 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
- 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.
- 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. 5
- 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



# Tenax Spa

## RIVO 15 PART B

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- ECHA website- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

- Hazard Products Regulation (HPR)
- WHMIS 2015
- ONTARIO R.R.O. 1990, Regulation 883 (version July 2016)
- IARC website
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act

#### 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.

#### CALCULATION METHODS FOR CLASSIFICATION

Product classification derives from criteria established by the Canada's Hazardous Products Regulations (HPR) (WHMIS 2015), unless determined otherwise in Section 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.