



Tenax Spa

ABRASIVI DIAMANTATI

Revision nr.3
Dated 06/07/2016
Printed on 06/07/2016
Page n. 1 / 5

Voluntary Informative Product Sheet

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

1.1. Product identifier

Product name **ABRASIVI DIAMANTATI**
Chemical name and synonym **STARK ABRASIVE WITH INORGANIC BINDER**

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

Intended use **Metallic tools for smoothing of marbles, granites and composites**

1.3. Details of the supplier of the voluntary informative product 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 voluntary informative product sheet **msds@tenax.it**

1.4. Emergency telephone number

For urgent inquiries refer to **800.883300 (24h)** **Centro Antiveleni (Bergamo)**

2. Hazards identification.

2.1. Classification of the substance or mixture.

Not applicable.
The abrasives are articles, not dangerous substances neither mixtures pursuant to Directive 1999/45/CE or Regulation 1272/2008/CE.
The product contains hazardous substances in concentrations such as to be declared in section no. 3.

2.2. Label elements.

The abrasives are articles, not dangerous substances neither mixtures, so are not subject to hazard labelling pursuant to Directives 1999/45/EC or Regulation 1272/2008/CE.

2.3. Other hazards.

Information not available.

3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.



Tenax Spa

ABRASIVI DIAMANTATI

Revision nr.3
Dated 06/07/2016
Printed on 06/07/2016
Page n. 2 / 5

3.2. Mixtures.

Contains:

Identification.	Conc. %.	Classification 67/548/EEC.	Classification 1272/2008 (CLP).
COBALTO			
CAS. 7440-48-4	0 - 100	F R11, Xn R42/43, N R50/53	Fam. Sol. 1 H228, Carc. 1A H350i, Repr. 2 H361f, Acute Tox. 2 H330, Acute Tox. 4 H302, Eye Irrit. 2 H319, Resp. Sens. 1 H334, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410
EC. 231-158-0			
INDEX. -			
Reg. no. 01-2119517392-44-0000			
COPPER			
CAS. 7440-50-8	0 - 100	N R50	Aquatic Acute 1 H400
EC. 231-159-6			
INDEX. -			
Reg. no. 01-2119480154-42-0065			

T+ = Very Toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritant(Xi), O = Oxidizing(O), E = Explosive(E), F+ = Extremely Flammable(F+), F = Highly Flammable(F), N = Dangerous for the Environment(N)

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

4. First aid measures.

4.1. Description of first aid measures.

CONTACT WITH THE SKIN: none known harmful effect.
INHALATION: impossible for the typology of the product.
INGESTION: improbable for the typology of the product.
CONTACT WITH EYES: impossible for the typology of the product.

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

No episodes of damage to health ascribable to the product have been reported.

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

Not considerable. Asymptomatic treatment.

5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING MEDIA

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

EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS

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 (carbon oxide, toxic pyrolysis products, etc).

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

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with straps around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of fume.

6. Accidental release measures.

Not applicable.



Tenax Spa

ABRASIVI DIAMANTATI

Revision nr.3
Dated 06/07/2016
Printed on 06/07/2016
Page n. 3 / 5

7. Handling and storage.

Follow the instructions of the grinder machines producers and the reference national regulations.
Observe also the producer's safety recommendation.

The material is an inert solid with high specific gravity: handle it with care and avoid lesions for impact.

Specific end use(s):

- Professional use of dental alliance containing diamond
- Professional use of diamond tools and others tools with cobalt
- Domestic use of cutting tools

8. Exposure controls/personal protection.

8.1. Control parameters.

Name	Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm
COBALT	TLV-ACGIH		0,02			
COPPER	TLV-ACGIH		0,2			
	OEL	IRL	1		2	
	WEL	UK	1		2	

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protection equipment, make sure that the workplace is well aired through effective local aspiration or bad air vent. If such operations do not make it possible to keep the concentration of the product below the permitted workplace exposure thresholds a suitable respiratory tract protection must be used. See product label for hazard details during use. Ask your chemical substance suppliers for advice when choosing personal protection equipment. Personal protection equipment must comply with the rules in force indicated below.

HAND PROTECTION

Protect hands with category II (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in PVC, neoprene, nitril or equivalent.

The following should be considered when choosing work glove material: degradation, breakage times and permeation. Work glove resistance to preparations should be checked before use, as it can be unpredictable. Gloves` limit depends on the duration of exposure.

EYE PROTECTION

Use of protective airtight goggles (ref. standard EN 166) recommended.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (ref. Directive 89/686/CEE and standard EN 344). Wash body with soap and water after removing overalls.

RESPIRATORY PROTECTION

If the threshold value for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection service is exceeded, wear an FFP1/2 (ref. standard EN 141) type half mask.

The wet use assures a preventive action that limits the exposition hazard. The collecting of the working mud and the watering reduce considerably the exposition.

Note: dangerous powder resulting from manufactured material can be generate during the working operations. Consider the national regulation for the powder exposition limit values.

9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance	solid
Colour	METALLIC
Odour	odourless
Odour threshold.	Not available.
pH.	Not available.
Melting or freezing point.	Not available.
Boiling point.	Not applicable.
Distillation range.	Not available.
Flash point.	Not applicable.
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.
Specific gravity.	Not available.
Solubility	Not available.
Partition coefficient: n-octanol/water	Not available.
Ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not available.
Reactive Properties	Not available.



Tenax Spa

ABRASIVI DIAMANTATI

Revision nr.3
Dated 06/07/2016
Printed on 06/07/2016
Page n. 4 / 5

9.2. Other information.

VOC (Directive 1999/13/EC) : 0
VOC (volatile carbon) : 0

10. Stability and reactivity.

10.1. Reactivity.

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

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.

10.4. Conditions to avoid.

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

10.5. Incompatible materials.

Information not available.

10.6. Hazardous decomposition products.

In the event of thermal decomposition (temperature > 250 °C), vapours potentially dangerous to health may be released.

11. Toxicological information.

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled carefully according to good industrial practices. This product may have slight health effects on sensitive people, by inhalation and/or cutaneous absorption and/or contact with eyes and/or ingestion.

11.1. Information on toxicological effects.

COBALT

12. Ecological information.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

12.1. Toxicity.

COPPER

COBALT

12.2. Persistence and degradability.

Information not available.

12.3. Bioaccumulative potential.

Information not available.

12.4. Mobility in soil.

Information not available.

12.5. Results of PBT and vPvB assessment.

Information not available.

12.6. Other adverse effects.

Information not available.

13. Disposal considerations.

13.1. Waste treatment methods.

Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. (2000/532/CE) (EWC – Nr. 120120).

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

Solid residues may be suitable for disposal in an authorised landfill site.

CONTAMINATED PACKAGING

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

14. Transport information.

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.



Tenax Spa

ABRASIVI DIAMANTATI

Revision nr.3
Dated 06/07/2016
Printed on 06/07/2016
Page n. 5 / 5

15. Regulatory information.

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

Seveso category. 9i

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

None.

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisation (Annex XIV REACH).

None.

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

16. Other information.

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

Flam. Sol. 1	Flammable solid, category 1
Resp. Sens. 1	Respiratory / skin sensitization, category 1
Skin Sens. 1	Respiratory / skin sensitization, category 1
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity category 1
H228	Flammable solid.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

R11	HIGHLY FLAMMABLE.
R42/43	MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.
R50	VERY TOXIC TO AQUATIC ORGANISMS.
R50/53	VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments
2. Directive 67/548/EEC and following amendments and adjustments
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
6. Regulation (EC) 453/2010 of the European Parliament
7. The Merck Index. - 10th Edition
8. Handling Chemical Safety
9. Niosh - Registry of Toxic Effects of Chemical Substances
10. INRS - Fiche Toxicologique (toxicological sheet)
11. Patty - Industrial Hygiene and Toxicology
12. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

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.