



**NATURAL FORCE**

Emission: MARCH 2017

Revision: n.5 February 2021

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**1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY**

**1.1. PRODUCT IDENTIFIER**

**NATURAL FORCE**  
**UFI: F940-803Y-A00D-REVG**

**1.2. RELEVANT IDENTIFIED USES OF THE MIXTURE AND ADVISED USES**

USES (see attached Exposure Scenarios) Oraganic fertilizer  
ADVISED USE --

**1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET**

Company: .....: **Euro TSA Srl**  
**Via Marconi, 13**  
**24040 Fornovo S.Giovanni (BG)**  
**Tel. +39 0363 337114**  
**Fax +39 0363 336035**

Competent person responsible for the safety data sheet: **sds@eurotsa.it**

**1.4. EMERGENCY TELEPHONE NUMBER**

For urgent inquiries refer to poison centers (CAV):  
Centro antiveleni – Torino – Telefono +39 011 663 7637 (24 ore)  
Centro antiveleni – Ospedale Niguarda Cà Granda – Milano – Telefono +39 02 6610 1029 (24 ore)  
Centro antiveleni – IRCCS Fondazione Maugeri – Pavia – Telefono +39 38 224 444 (24 ore)  
Centro interdipartimentale di ricerca sulle intossicazioni acute – Padova – Telefono +39 049 8275078 (ore 8:00-20:00)  
Centro antiveleni – Roma – Telefono +39 649970698 (24 ore)  
Centro antiveleni – Foggia – Telefono +39 881732326 (8:00-18:00)

**2. HAZARD IDENTIFICATION**

**2.1 SUBSTANCE CLASSIFICATION**

**2.1.1 CLASSIFICATION Regulation EC 1272/2008 CLP (Classification – Labelling – Packaging)**  
**NOT DANGEROUS**

**2.2 ELEMENTS OF LABEL**

Regulation EC 1272/2008 CLP (Classification – Labelling – Packaging)  
Hazard pictogram: none

**2.3 OTHER HAZARD**

According to Annex XIII of Reg. EC 1907/2006 we were not performed evaluations PBT and vPvB as the substance is inorganic

**3. COMPOSITION AND INFORMATION ON INGREDIENTS**

**3.1 SUBSTANCES**

Not Applicable

**3.2 MIXTURES**

There are no ingredients that, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.  
The Occupational exposure limits, if available, are listed in section 8.

**4. FIRST AID MEASURES**

ROUTES OF EXPOSURE		INHALATION	CONTACT WITH SKIN	CONTACT WITH EYES	INGESTION
4.1 Description of first aid measures		Under normal conditions of intended use, this material is not expected to be an inhalation hazard.	Remove contaminated clothing. Wash with soap and water.	Flush thoroughly with water. If irritation occurs, get medical assistance.	Rinse mouth. Drink plenty of water. Get medical attention if symptoms occur.
4.2 Main symptoms and effects	acute	Not Applicable	Irritation	Conjunctivitis	Gastrointestinal disorders
	delayed	Not relevant	No relevant	Conjunctivitis	Gastrointestinal disorders
4.3 Indication of any immediate medical attention and special treatment		It is necessary to call the doctor if feeling unwell. Recommendation means for the specific treatment to be made available in the workplace: eye wash fountain and emergency showers			

**5. FIRE-FIGHTING MEASURES**

the product is not combustible (v. also item 10). If the substance is involved in a fire, cool containers exposed to fire with water spray. Operate from a safe putting upwind.

5.1 Fire fighting	Suitable Extinguishing agents: Foam, CO <sub>2</sub> , chemical dust, water spray. Unsuitable extinguishing agents: do not use water jets
5.2 Special hazards arising from the substance or mixture	Intoxication, irritation of the skin and eyes due to the formation of dangerous fumes during the fire.
5.3 Advice for firefighters	Do not breathe gas from explosions and fires. Bring breathing apparatus. Wear full protective suit
5.4 Other information	Cool containers at risk with water spray jet. Collect contaminated water used for fire fighting, absolutely not to pipe the sewage system.

**6. ACCIDENTAL RELEASE MEASURES**

6.1 Personal precautions, protective equipment and procedures in case of emergency	Keep away from sources of ignition. Keep people away and stay on the windward side
6.2 Environmental precautions	Take up with suitable equipment to avoid that comes to sewage or soil. Retain and purify polluted water.
6.3 Methods and materials for containment and cleaning up	Pick up mechanically. Dispose of the material collected according to regulations at point 13
6.4 Reference to the other section	See the section 8 and 13

**7. HANDLING AND STORAGE**

**7.1. PRECAUTIONS FOR SAFE HANDLING**

7.1.1. Recommendations for safe handling: avoid the mixture with strongly acidic or basic.

7.1.2. 7.1.2. Recommendations on general occupational hygiene: not eating, drinking and smoking in work areas. Wash your hands in the event of accidental contact and off the contaminated clothes and PPE worn before entering the dining places. Avoid contact with skin and eyes and avoid ingestion. In the vicinity of workplaces also provide for emergency showers and eye wash fountains.

**7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

Condition of storage	Store the product in a cool, well-ventilated, away from heat, sun exposure and possibly without open sewers. Keep out of the reach of children, unauthorized persons, and pets, separate from food, drinking water or margins.
Incompatible materials	Reducing materials
Suitable materials	Store in original container.

**7.3. SPECIFIC FINAL USE**

Organic fertilizer;

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1. CONTROL PARAMETERS

8.1.1 LIMIT VALUES:

The product does not contain any component > 1% with specific occupational exposure limits (OEL or TLV)

8.1.2 Monitoring: Periodic visits of monitoring medical judgment Decree. No. 81 of 2008.

8.1.3 Formation of environmental contaminants: the concentrated solution may be a contaminant in the soil and waterways.

8.2. EXPOSURE CONTROL

8.2.1. Suitable technical control: not required

8.2.2. Individual protection measures, such as personal protective equipment

It is recommended to store street clothes separately from work, do not smoke, eat or drink except in the places allowed, to remove clothing contaminated by the substance and to shower in case of contamination of the body and clothing.

8.2.2.1. Protection of eyes/face: Safety glasses anti acid, anti splash visor

8.2.2.2. Skin protection / Hand protection

Rubber gloves, nitrile, butyl, latex with a degree of chemical resistance suitable, contact the vendor of DPI and request its compatibility with the substance.

Overalls and safety shoes with a degree of chemical resistance suitable, contact the vendor of DPI and request its compatibility with the substance.

8.2.2.3. Respiratory protection: Not required except in an emergency

8.2.3. Environmental exposure controls:

Avoid that the product can contaminate land and / or surface water and / or groundwater.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

9.1. Information on physical and chemical properties

Aspect	
• Physical state at 20° C	Liquid
• Color	Brown
• Smell	Characteristic
pH	3.5-4.5
Freezing point	Not available
Boiling point / range	> 100°C
Flash point (liquid)	Not applicable
Evaporation rate	Not available
Flash	Not flash
Vapor pressure	Not available
Vapor density	Not available
Density	1,25 g/cm <sup>3</sup> (at 20°C)
Solubility	dispersible
Partition coefficient n-octanol / water	Not available
Auto flammability (self-ignition)	Not applicable
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not explosive
Oxidizing properties	Not oxidant

9.2. Other information

Conductivity	16,4 mS/cm
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**10. STABILITY AND REACTIVITY**

10.1. Reactivity

Avoid contact with strongly acidic or basic solutions or strong reducing

10.2. Chemical Stability

The product is stable in normal conditions of temperature and pressure provided for the storage and manipulation

10.3. Possibility of hazardous reactions

no especially if it handled according to normal conditions of use

10.4. Condition to avoid

Physical damage to containers; heating containers, welding or hot work on equipment or plant which may have contained the product, without having been cleaned thoroughly.

10.5. Incompatible materials

Reducing agents, strong acids and bases, metal powders

10.6. Hazardous decomposition products

If heated to decomposition may develop toxic smokes

**11. TOXICOLOGICAL INFORMATION**

**11.1.1/2/3/4/5/6 Information on toxicological effects:**

solution of maceration of cereals and fruit

Effect	Test	Specie	Doses	Exposition	Conclusion
Acute toxicity (year 1984)	LD50 Oral	Rat	3543 mg/kg		Not Hazardous (EPA OPP 81-1)

**11.1.7 Information on likely routes of exposure:**

Exposition	Potential acute effects on health	symptoms
Eye contact:	May cause eye irritation	Pain, tearing, redness
Skin contact:	Mild skin irritation phenomena for long exposures	Redness, irritation
Inhalation	Under normal conditions of use does not emit hazardous vapors	Not available
Ingestion	Ingestion may cause gastrointestinal disturbances	nausea, vomiting, diarrhea

**11.1.8 Symptoms related to the physical, chemical and toxicological:**

Can form vapors if reacts reactions with incompatible substances or in case of fire. After contact with the mixture see above under 4.

**11.1.9 Immediate, delayed and chronic effects from short- and long-term exposure:**

Sensitization:	unreported evidence
Carcinogenesis:	unreported evidence
Mutagenesis:	unreported evidence
Toxicity for the reproduction:	unreported evidence

11.1.10 Interactive effects: not available

11.1.11 Absence of specific data: not applicalbe

11.1.12 Information on mixtures than Substance Information: not available

11.1.13 Other information: not available

11.1.14 Endocrine Disruptor: no data available

**12. ECOLOGICAL INFORMATION**

Adopt good technical standards and avoid dispersing the product in the environment (v. Also section. 6,7,13,14, 15)

12.1. Aquatic toxicity (including sediment):

Specie	Exposition	Type of effect	Result	Method
Fish	Fresh water – static – 96h	Short term – acute	-	OECD-Guidel.203
Invertebrate	Fresh water – static – 48h	Short term – acute	-	OECD-Guidel.202
Algae and aquatic plants	Fresh water – static – 72h	-	-	OECD-Guidel.201
Soil organism	Artificial soil – 14 days	Short term – acute	-	OECD-Guidel.207

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12.2. Persistence and degradability  
The product is degradable

12.3. Potential for bioaccumulation  
Low potential of bioaccumulation

12.4. Mobility in the soil  
High mobility.

12.5. Evaluation results PBT and vPvB  
The substance doesn't answer at classification criteria PBT e vPvB

12.6. Other adverse effects  
Unknowledge

12.7 Endocrine Disruptor  
No data available

**13. DISPOSAL CONSIDERATION**

**13.1 METHOD OF WASTE TREATMENT**

Description and handling of residues	Surpluses or residues must be handled in compliance with safety and any protective equipment indicated under headings 7 and 8
Appropriate methods of disposal	Recover as much as possible the product to be used as fertilizer. If contaminated with other substances, operate according to existing rules on waste disposal.
European Waste Catalogue	Not available

**14. TRANSPORT INFORMATION**

The substance is not among the goods subject to regulations ADR/ RID – IMDG – ICAO/IATA

	A.D.R. / R.I.D	IMDG	IATA / IATA
14.1 Number ONU:	----	----	----
14.2 ONU spedition name:	----	----	----
14.3 Classification:	----	----	----
14.4 Packing group:	----	----	----
14.5 Environmental hazards	----	----	----
14.6 Special precautions for users:	Special precautions during transport inside and / or outside the company: label all containers (including samples for testing) according to the regulation on the classification, labeling and packaging of mixtures according to the legislation in force.		
14.7 Transport in bulk according to Annex II di MARPOL 73/78 e il codex IBC:	----	----	----
14.8 Labels	----	----	----
14.9 Transport category	----	----	----
14.10 Tunnel restriction code	----	----	----
14.11 Number Kemler	----	----	----
14.12 Number EMS	----	----	----
14.13 Marine pollutant:	----	----	----

**15. REGULATORY INFORMATION**

**15.1 Norms and legislation, health legislation specific for the substance or mixture**

- D.Lgs. 3/2/1997 n. 52 (Classification, packaging and labelling hazardous substances)
- D.Lgs 14/3/2003 n. 65 (Classification, packaging and labelling dangerous preparations)
- D.Lgs. 9/4/2008 n. 81
- D.M. Lavoro 26/02/2004 (limits of professional exposure)
- D.M. 03/04/2007 (implementation of the Directive n. 2006/8/CE)
- Regulation (CE) n. 1907/2006 (REACH)
- Regulation (CE) n. 1272/2008 (CLP) and subsequent adjustments

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Restrictions relating to the product or contained substances pursuant to Annex XVII of Regulation (CE) 1907/2006 (REACH) and following adjustments: No

Where applicable, refer to the following regulations:

Ministerial circulars 46 e 61 (aromatic ammine).

D.Lgs. 21 settembre 2005 n. 238 (Directive Seveso Ter).

D.P.R. 250/89 (labelling detergents).

D.Lgs. 3/4/2006 n. 152 norms for environment

Regulation CE 2003/2003 e s.m.i.

D.Lgs. 75/2010 e s.m.i.

**15.2 Valuation fo chemical security**

Completed

**16. OTHER INFORMATION**

Information present on the label

Name of the person responsible for placing on the Community market	EURO TSA Srl Via G. Marconi 13 24040 Fornovo San Giovanni (BG)
Commercial name	<b>NATURAL FORCE</b>
Hazard symbol	See point 2.2

- The personnel assigned to the handling of the substance / preparation must be previously subjected to intervention training and information regarding the chemical risk.  
The data and information contained in this data reflect the current state of our knowledge of the product as complying with the specifications. Users must verify the completeness and suitability of the information, depending on the use it has to do by resorting to additional measures in case of special conditions or exceptional. The user is not exempt from observing all the laws on the product, including the environmental health and safety at work.
- Main bibliographic sources used.
  - ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
  - SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS – 10° Ed. – Van Nostrand Reinold
  - ACGIH - Threshold Limit Values - 2010 edition
  - ESIS – European chemical Substances Information System – Joint Research Centre – Commission of the European Communities
  - EPA – Environmental Protection Agency

**Acronimi**

**ADN:** accordo europeo relativo al trasporto internazionale delle merci pericolose per vie navigabili interne (accord européen relative au transport international des marchandises dangereuses par voies de navigation intérieures)

**ADR:** accordo europeo relativo al trasporto internazionale delle merci pericolose su strada (accord européen relative au transport international des marchandises dangereuses par route)

**ACGIH:** American Conference of Governmental Industrial Hygienists

**CL 50:** Concentrazione Letale per il 50% degli Individui (Lethal Concentration 50)

**CLP:** Classificazione, Etichettatura e Imballaggio (Classification, Labelling and Packaging)

**CSR:** Rapporto sulla Sicurezza Chimica (Chemical Safety Report)

**DL 50:** Dose Letale per il 50% degli Individui (Lethal Dose 50)

**DMEL:** Caratterizzazione della dose (concentrazione) – risposta per la salute umana: Livelli derivati con effetti minimi

**DNEL:** Caratterizzazione della dose (concentrazione) – risposta per la salute umana: Livelli derivati senza effetto

**DPI:** Dispositivo di protezione individuale

**IARC:** Ente Internazionale per la Ricerca sul Cancro (International Agency for Research on Cancer)

**IATA:** Associazione Internazionale del Trasporto Aereo (International Air Transport Association)

**ICAO:** Organizzazione Internazionale dell'Aviazione Civile (International Civil Aviation Organization)

**Codice IMDG:** Codice sul Regolamento del Trasporto Marittimo (International Maritime Dangerous Goods code)

**NOAEL:** No Observed Adverse Effect Level – dose alla quale non si osserva alcun effetto avverso

**PBT:** sostanze persistenti bioaccumulabili e tossiche (Persistent, bioaccumulative and toxic)

**PNEC:** Concentrazione prevedibile priva di effetti (Predicted no effect concentration)

**RID:** Regolamento concernente il trasporto Internazionale ferroviario delle merci Pericolose (Règlement concernant le transport International ferroviaire des marchandises Dangereuses)

**STEL:** limite di esposizione a breve termine (short term exposure limit)

**TLV:** soglia di valore limite (threshold limit value)

**TWA:** media ponderata nel tempo (Time Weighted Average)(

**UE:** Unione Europea

**vPvB:** sostanze molto persistenti e moltobioaccumulabili (Very persistent very bioaccumulative)

**s.m.i:** successive modifiche ed integrazioni

**This sheet has been revised in all its sections in accordance with Regulation EU 2020/878**