

CLEANCLASTER

Emission: January 2018

Revision:n.3 February 2021

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

1.1. PRODUCT IDENTIFIER

CLEANCLASTER – Adjuvants for herbicide
UFI: 1V00-00H3-200K-9SJW

N° OF REGISTRATION OF SUBSTANCE ACCORDING TO THE REGULATION 1907/2006
 n.a.

1.2. RELEVANT IDENTIFIED USES OF THE MIXTURE AND ADVISED USES

USES Adjuvant for herbicides
 ADVISED USE All other not reported on the label

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Society:.....: **EURO TSA Srl**
Sede legale e amministrativa:
Via G. marconi 13 – 24040 Fornovo S. Giovanni (BG)
Tel. 0363/337114 – 337452 – Fax 0363/336035
(attivi dalla 8:30 alle 17:30; dal lunedì al venerdì)

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

1.4. EMERGENCY TELEPHONE NUMBER

Centro antiveleni – Torino – Telefono +39 011 663 7637 (24 ore)
 Centro antiveleni – Ospedale Niguarda Cà Granda – Milano – Telefono +39 02 6610 1029 (24 ore)
 For urgent inquiries refer to poison centers (CAV): 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 CE 1272/2008 CLP (Classification – Labelling – Packaging)
NOT DANGEROUS

2.2 ELEMENTS OF LABEL

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



Safety advice	P102	Keep out of reach of children.
Prevention	P270	Do no eat, drink or smoke when using this product.

2.3 OTHER DANGER

According to Annex XIII of Reg. EC 1907/2006 we were not performed evaluations PBT and vPvB because the substances making up the solution are inorganiche

3. COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

Name	Conc.	CAS	EINECS	GHS	REACH registration	CLP Classification
Phosphorous acid crystals	20% ÷ 40%	10294-56-1	233-663-1	015-157-00-0		 H314 Skin Corr. 1B
Phosphonic acid		13598-36-2	237-066-7		01-2119488030-46-0003	 H302 Acute Tox. 4

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Chemical Name	IUPAC name	Description	Molecular weight	Formula
Phosphorous acid	Phosphorous acid	Inorganic acid	82,00	H ₃ PO ₃
Phosphonic acid	Phosphonic acid	Inorganic acid	82,00	H ₃ PO ₃

No additional ingredients present which, 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.

4. FIRST AID MEASURES

ROUTES OF EXPOSURE	INHALATION (low probability event)	CONTACT WITH SKIN	EYE CONTACT	INGESTION
4.1 Description of first aid measures	In case of complaints consult a doctor. Remove from the contaminated area and keep him relaxed and to rest in a ventilated area. If the person is having difficulty breathing, give oxygen. If not breathing, provide artificial respiration and therefore oxygen.	Remove contaminated clothing. Wash the affected skin area with plenty of soap and water. Calling your doctor.	Seek immediate medical attention. Wash immediately with water for at least 15 minutes holding eyelids open possibly by rotating slowly eyeballs. It is necessary a specialized medical treatment as soon as possible.	Seek immediate medical attention. Do not induce vomiting. Require emergency relief. The early intervention is crucial for the safety of the patient. Do not give anything to drink if the person is unconscious. If the person is conscious, give rinse your mouth with water.
4.2 Main symptoms and effects	acute	Irritation of the nose, throat, cough, shortness of breath, headache, nausea and vomiting.	pain, ulcers, severe burns.	It causes serious eye damage
	delayed	Pulmonary edema, bronchitis, chemical pneumonia.	Pain or irritation, redness, blistering	In severe cases can occur irreversible damage to the eye.
4.3 Indication of any immediate medical attention and special treatment	It is necessary to call the doctor. Recommendation for rescuers need to wear PPE to rescue the individual exposed (see section 8). Perform mouth-to-mouth can be dangerous to the person providing aid. 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 flammable (see also item 10). If heated to decomposition at 200 ° C emits toxic fumes.

5.1. Fire fighting	Foam, CO ₂ , chemical dust, water spray
5.2. Special hazards arising from the substance or mixture	Any outbreak leading to the product decomposition could develop Phosphine, flammable vapors NH ₃ / NO _x and PO _x which have characteristics of the fire extinguishing inhibiting free radical chain
5.3. Advice for firefighters	Wear personal protective equipment with eye protection and respiratory (breathing apparatus).

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and procedures in case of emergency	Avoid contact with skin and eyes and respiratory protection. Wear personal protective clothing and gloves (gloves resistant to corrosive chemicals, eg. Butyl gloves, latex, nitrile). Keep upwind (see sections 7 and 8). Do not take any action that involves personal risk or without suitable training. Evacuate surrounding areas. Do not touch or walk through spilled material. Provide adequate ventilation. Do not breathe vapors or mists.
6.2 Environmental precautions	Contain spill with absorbent material (sand, sawdust). Do not allow the product to flow into sewers, water wells, surface water and groundwater.
6.3 Methods and materials for containment and cleaning up	Wash with plenty of water, taking appropriate measures to ensure no problems arise from pollution. Reduce the leak with sand, earth, vermiculite or diatomaceous earth or inert material. Recover in sealed containers and dispose. Mark out the contaminated area. Do not use strong bases for the neutralization of the product. Repair the leak, if this does not involve danger, after wearing the necessary protective equipment. Dispose of via a licensed waste disposal.

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6.4 Reference to the other section	See section 1 for emergency numbers See Section 8 for information on appropriate personal protective equipment See section 13 for waste treatment
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7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

- 7.1.1. Recommendations for safe handling: if you can operate in environments with exhaust hoods or equivalent capture systems, avoid mix with acid products.
- 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 inhaling any vapors / aerosols, contact with the skin and eyes and avoid ingestion. In the vicinity of workplaces also provide for emergency showers and eyewash fountains.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Condition of storage	Provide storage facilities for works of containment to prevent pollution of soil and water in case of spills. Store in cool and ventilated places away from potential heat sources. Keep away from the elements. Protect containers from physical damage. Take electrical safety. Do not smoke, drink or eat.
Incompatible materials	Store away from strong bases and powdered metals (see also item 10).
Suitable materials	Special steel (AISI 316L), specific P.R.F.V. (polyester reinforced with glass fibers), polythene.

7.3. SPECIFIC FINAL USE
Adjuvant.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

- 8.1.1 Professional exposure limits: undefined
- 8.1.2 Monitoring: Periodic visits of monitoring medical judgment Decree. No. 81 of 2008.
- 8.1.3 Training of environmental contaminants: n.a..
- 8.1.4 Chemical safety report: N.A.
- 8.1.5 Control Banding: non request

8.2. EXPOSURE CONTROL

- 8.2.1. Suitable technical control
Work in a ventilated area and / or equipped with suction hoods or equivalent installations of uptake. If development of fumes, gas, vapor or spray apply additional engineering controls designed to maintain the levels of airborne contaminants below any recommended or statutory limits.
- 8.2.2. Individual protection measures, such as personal protective equipment
Store street clothes separately from work. Do not smoke, eat or drink except in the places allowed. Remove clothing contaminated by the substance. Take a shower in the case of contamination of the body and clothing. Discard contaminated clothing and shoes.
 - 8.2.2.1. Protection of eyes/face:
Recommended: safety glasses with splash barriers (CEN: EN 166), face shield.
Apparatus for use in emergencies.
 - 8.2.2.2. Skin protection / Hand protection
Rubber gloves, nitrile, neoprene, PVC, butyl, latex 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
None required under normal working conditions
Apparatus for use in emergencies
- 8.2.3. Environmental exposure controls::
Avoid that the substance is likely to contaminate the soil and / or surface water and / or groundwater.
In some cases washing fumes, filters or engineering modifications to the process equipment to reduce atmospheric emissions to acceptable levels

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on physical and chemical properties

Aspect	
• Physical state at 20° C	Slightly viscous liquid clear to slightly opalescent
• Color	colorless
• Smell	Odorless or slightly pungent
pH	1 ÷ 2
Freezing point	< 0°C
Boiling point / range	200°C con decomposition
Flash point (liquid)	Not applicable
Evaporation rate	Not available
Flash	Not applicable
Vapor pressure	Not available
Vapor density	Not available
Density	1,30 ± 0,05 kg/l
Solubility	
Idrosolubility	In all rapport
Liposolubility	Not available
Partition coefficient n-octanol / water	Not applicable
Auto flammability (self-ignition)	Not applicable
Decomposition temperature	200°C
Viscosity	Not available
Explosive properties	Not applicable
Oxidizing properties	Not available
9.2. OTHER INFORMATION	
Conductivity	Aqueous solutions of inorganic salts conduct electricity

10. STABILITY AND REACTIVITY

10.1. REACTIVITY

Avoid contact with basic solutions to avoid the violent overheating of the solution and the production of sketches

10.2. CHEMICAL STABILITY

Under normal conditions of storage and use, the product is stable

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

Under normal conditions of storage and use no hazardous decomposition

10.4. CONDITION TO AVOID

Temporary storage and outdoor. Physical damage to the 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

The solution is corrosive to metals is not ennobled. Perform compatibility tests before handling the product.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

The decomposition in a fire free toxic gases.

11. TOXICOLOGICAL INFORMATION

11.1.1/2/3/4/5/6 INFORMATION ON TOXICOLOGICAL EFFECTS:

Effect	Test	Specie	Doses	Exposition	Conclusion
Acute toxicity (rif. Pure phosphorous acid)	DL50 Oral DL50 Oral	Rat Mouse	1895 mg/Kg 2172 mg/Kg	-	Harmful if swallowed – category 4 (classification attributed due to corrosion effects)* * in CLEANCLASTER formulation the substances are mixed to generate a non-corrosive salt and not classified for this hazard class as confirmed by in vitro skin and eye irritation tests. the product must not be classified as harmful class 4
Corrosion / skin irritation	In-vitro skin corrosion	-	-	-	Negative
Serious eye damage / eye irritation	In-vitro eye corrosion	-	-	-	Negative
Respiratory or skin sensitization	CLP calculation method	-	-	-	Not sensitizer
Germ cell mutagenicity (ref. pure Phosphorous acid)	471 Bacterial Reverse Mutation Test		In vitro; Batteri; with and without		Negative No mutagenic Negative No carcinogenic effects
Teratogenicity	-	-	-	-	Negative
Toxicity for the reproduction	-	-	-	-	Maternal toxicity: negative Fertility: negative Developmental toxicity: negative
Specific target organ toxicity (STOT) single exposure	-	-	-	-	No toxicity data applicable
Specific target organ toxicity (STOT) Repeated exposure	-	-	-	-	No toxicity data applicable
Danger Aspiration	-	-	-	-	No toxicity data applicable

11.1.7 Information on likely routes of exposure: cute

Exposition	Potential acute health	Symptoms
Eye contact	It causes serious eye damage	Pain watering redness
Skin contact	Splashes can cause burns and blisters if contact is prolonged.	Pain, redness, irritation, blisters
Inhalation: (low probability event)	It may give off dust or splashing that is very irritating to the respiratory system.	Burning sensation, coughing, wheezing, laryngitis, headache, nausea, vomiting
Ingestion:	the ingestion of a solution of phosphorous acid causes immediately in mouth sores, stomach, vomiting. Symptoms of poisoning	Severe abdominal pain

11.1.8 Symptoms related to the physical, chemical and toxicological:

Valor see over

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

Adverse health effects are considered unlikely when the product is correctly handled

Potential Chronic Health: n.a.

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

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12. ECOLOGICAL INFORMATION

Adopt good practice standards and avoid littering (v. Also sect. 6, 7, 13, 14, 15)

12.1. Toxicity (rif. Pure Phosphorous Acid)

Results	Specie	Expostion	Riferences
Acute CL ₅₀ = 100 mg/l Fresh water	Trout	96 h	

12.2. Persistence and degradability

The product is intended for the fertilizer and adjuvant sector therefore is readily biodegradable. High amounts of dispersed product can lead to eutrophication

12.3. Potential for bioaccumulation

Low potential for bioaccumulation

12.4. Mobility in the soil

Water-soluble, low mobility in soils.

12.5. Evaluation results PBT and vPvB

The solution, based on the information available, does not meet the PBT and 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	The containers may retain product residue. The generation of waste should be avoided or minimized wherever possible. Dispose of via a licensed waste.
Appropriate methods of disposal	The solution is intended to be used as fertilizer and/or adjuvant after proper dilution, as such must be treated in purification plants licensed.
European Waste Catalogue	Codice CER: 06 10 99

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 dangerous substances according to the rules into force.		
14.7 Transport in bulk according to Annex II di MARPOL 73/78 e il codex IBC:	-----	-----	-----
14.8 Labels	-----	-----	-----

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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

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)
Chemical name of products	Magnesium phosphonate
Commercial name	CLEANCLASTER
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

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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 UE 2020/878