

Safety data sheet according to 1907/2006/EC (REACH)

Printing date 11.03.2016

Rev. n. 3

Revision: 15.02.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
 - Trade name: **PULI BOTTE**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

 - **Application of the substance / the mixture**

Special cleaner for removing herbicide residues from agricultural machinery
- **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**

SALVARANI S.r.l.
Via M. Buonarroti, 2
42028 Poviglio (RE) - ITALY
TEL. +39 0522 969177 - FAX. +39 0522 960612
 - **Further information obtainable from:** e-mail: infosicurezza@salvarani.com
- **1.4 Emergency telephone number:**

UNITED KINGDOM
National Poisons Information Service (NPIS) - Tel: +44 844 8920111


SALVARANI S.r.l.
Technical Support: Tel: +39 0522 969177 (Monday-Friday: 8-12 AM , 1:30-5:30 PM)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008**

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
 - **2.2 Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

 - **Hazard pictograms**
- 

GHS07
- **Signal word** Warning
 - **Hazard statements**

H315 Causes skin irritation.
H319 Causes serious eye irritation.
 - **Precautionary statements**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P264	Wash thoroughly after handling.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P362+P364	Take off contaminated clothing and wash it before reuse.
 - **2.3 Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 68891-38-3 NLP: 500-234-8 Reg.nr.: 01-2119488639-16-XXXX	Alcohols, C12-14, ethoxylated, sulfates, sodium salts ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	2.5-5%
CAS: 497-19-8 EINECS: 207-838-8 Index number: 011-005-00-2 Reg.nr.: 01-2119485498-19-XXXX	sodium carbonate ⚠ Eye Irrit. 2, H319	2.5-5%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43-XXXX	ethanol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319	2.5-5%
ELINCS: 483-960-7 Reg.nr.: 01-0000020220-90-0000	D-pentose and D-glucose, oligomeric, C8 and C10 alkyl glycosides ⚠ Eye Dam. 1, H318	1-2.5%
CAS: 1310-73-2 EINECS: 215-185-5 Index number: 011-002-00-6 Reg.nr.: 01-2119457892-27-XXXX	sodium hydroxide ⚠ Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318	0.5-1%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Protective equipment:

Do not inhale explosion gases or combustion gases.

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Wear self-contained respiratory protective device.

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SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

No special measures required.

Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection: The product is not flammable.**7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.**Information about storage in one common storage facility:**

Do not store together with acids.

Store away from oxidising agents.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Keep container tightly sealed.

Caution when reopening receptacles with broken seal.

7.3 Specific end use(s) No further relevant information available.**SECTION 8: Exposure controls/personal protection****Additional information about design of technical facilities:** No further data; see item 7.**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****CAS: 64-17-5 ethanol**WEL (Great Britain) Long-term value: 1920 mg/m³, 1000 ppmPEL (USA) Long-term value: 1900 mg/m³, 1000 ppmREL (USA) Long-term value: 1900 mg/m³, 1000 ppmTLV (USA) Short-term value: 1880 mg/m³, 1000 ppm**CAS: 1310-73-2 sodium hydroxide**WEL (Great Britain) Short-term value: 2 mg/m³PEL (USA) Long-term value: 2 mg/m³REL (USA) Ceiling limit: 2 mg/m³TLV (USA) Ceiling limit: 2 mg/m³**DNELs****CAS: 68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts**

Oral DNEL / Long Term exposure - Systemic effects 15 mg/kg bw/d (general polulation)

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Dermal	DNEL / Long Term exposure - Systemic effects	1650 mg/kg bw/d (general polulation) 2750 mg/kg bw/d (workers)
Inhalative	DNEL / Long Term exposure - Systemic effects	52 mg/m ³ (general polulation) 175 mg/m ³ (workers)

· **PNECs****CAS: 68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts**

PNEC / aqua	0.24 mg/l (freshwater) 0.024 mg/l (marine water)
PNEC / sediment	0.545 mg/kg dw (freshwater) 0.054 mg/kg dw (marine water)
PNEC / soil	0.946 mg/kg dw (-)
PNEC / STP	10000 mg/l (sewage treatment plant)

· **Additional information:** The lists valid during the making were used as basis.· **8.2 Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

- The usual precautionary measures are to be adhered to when handling chemicals.
- Keep away from foodstuffs, beverages and feed.
- Avoid contact with the eyes and skin.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols.
- Ensure that washing facilities are available at the work place.

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter AX

· **Protection of hands:**

Protective gloves

Alkaline resistant gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.4 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **For the permanent contact gloves made of the following materials are suitable:**

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.7 mm· **Not suitable are gloves made of the following materials:** Leather gloves· **Eye protection:**

Tightly sealed goggles

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- **Body protection:**
Use protective suit.
Light weight protective clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

- **Form:** Fluid
- **Colour:** Light yellow
- **Odour:** Characteristic
- **Odour threshold:** Not determined.

· **pH-value:** 12 ±0.5

· Change in condition

- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** 100 °C

· **Flash point:** 55 °C

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** Not determined.

· **Decomposition temperature:** Not determined.

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· Explosion limits:

- **Lower:** Not determined.
- **Upper:** Not determined.

· **Vapour pressure:** Not determined.

· **Density at 20 °C:** 1.03 g/cm³

- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.

· Solubility in / Miscibility with

- **water:** Fully miscible.

· **Partition coefficient (n-octanol/water):** Not determined.

· Viscosity:

- **Dynamic:** Not determined.
- **Kinematic:** Not determined.

· 9.2 Other information

The product doesn't sustain combustion
(UN Recommendations, Manual of Tests and Criteria. Part III - Section 32.5.2: Test L.2 Sustained Combustion Test).

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

· 10.2 Chemical stability

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions** Reacts with strong acids and oxidising agents.

· **10.4 Conditions to avoid** No further relevant information available.

· **10.5 Incompatible materials:** No further relevant information available.

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- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

CAS: 68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Oral	LD50	4100 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rat)

CAS: 497-19-8 sodium carbonate

Oral	LD50	4090 mg/kg (rat)
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CAS: 64-17-5 ethanol

Oral	LD50	6200-15000 mg/kg (rat)
Inhalative	LC50 / 4h	> 50 mg/l (rat)

D-pentose and D-glucose, oligomeric, C8 and C10 alkyl glycosides

Oral	LD50	> 2000 mg/kg (rat)
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CAS: 1310-73-2 sodium hydroxide

Oral	LD50	2000 mg/kg (rat)
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- **Primary irritant effect:**

- **Skin corrosion/irritation**

Causes skin irritation.

- **Serious eye damage/irritation**

Causes serious eye irritation.

- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

- **Acute effects (acute toxicity, irritation and corrosivity)**

The product is not classified as Corrosive, according to the test results

(EU Test method B.40 bis / OECD Guidelines - Test No. 431: In Vitro Skin Corrosion - Reconstructed Human Epidermis Test Method).

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

- **Carcinogenicity** Based on available data, the classification criteria are not met.

- **Reproductive toxicity** Based on available data, the classification criteria are not met.

- **STOT-single exposure** Based on available data, the classification criteria are not met.

- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

- **Aquatic toxicity:**

No further relevant information available.

CAS: 68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts

LC50 / 96h	1-10 mg/l (fish - Brachydanio rerio)
EC50 / 72h	27.7 mg/l (algae - Scenedesmus sp.)

CAS: 497-19-8 sodium carbonate

EC50 / 48h	347 mg/l (crustacea - Daphnia magna)
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CAS: 64-17-5 ethanol

EC50 / 48h	12340 mg/l (crustacea - Daphnia magna)
LC50 / 96h	13500-15300 mg/l (fish - Pimephales promelas)
	13000 mg/l (fish - Oncorhynchus mykiss)
ErC50 / 72h	12.9 mg/l (algae - Selenastrum capricornutum)
	275 mg/l (algae - Chlorella vulgaris)

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CAS: 1310-73-2 sodium hydroxide

EC50 / 48h 40.4 mg/l (crustacea)

LC50 / 96h 35-189 mg/l (fish)

· **12.2 Persistence and degradability**

The surfactants contained in the product correspond to the legislation on the environmental compatibility of detergents and are biodegradable.

· **12.3 Bioaccumulative potential** No further relevant information available.· **12.4 Mobility in soil** No further relevant information available.· **Additional ecological information:**· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

· **12.5 Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

· **Uncleaned packaging:**· **Recommendation:**

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

· **14.1 UN-Number**· **ADR, ADN, IMDG, IATA**

Void

· **14.2 UN proper shipping name**· **ADR, ADN, IMDG, IATA**

Void

· **14.3 Transport hazard class(es)**· **ADR, ADN, IMDG, IATA**· **Class**

Void

· **14.4 Packing group**· **ADR, IMDG, IATA**

Void

· **14.5 Environmental hazards:**· **Marine pollutant:**

No

· **14.6 Special precautions for user**

Not applicable.

· **14.7 Transport in bulk according to Annex II of****Marpol and the IBC Code**

Not applicable.

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· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Regulation (EC) No 1907/2006 (REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals)
Regulation (EC) No 1272/2008 (CLP - Classification, Labelling and Packaging of substances and mixtures)

Compilation of Safety Data Sheet: Reg.UE n. 830/2015 (amending Reg.EC n.1907/2006, Annex II)

- **Directive 2012/18/EU**
 - **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

- H225 Highly flammable liquid and vapour.
- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life with long lasting effects.

- **Abbreviations and acronyms:**

- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- CLP: Classification, Labelling and Packaging
- ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- TLV: Threshold Limit Value
- TLV-TWA: Threshold Limit Value - Time Weighted Average
- TLV-STEL: Threshold Limit Value - Short Term Exposure Limit
- IOELV: Indicative Occupational Exposure Limit Value
- BEI: Biological Exposure Indices
- LD50: Lethal Dose, 50 percent
- LC50: Lethal Concentration, in air, 50 percent
- LC50: Lethal Concentration, 50 percent
- EC50: Effective Concentration, 50 percent
- ErC50: Effective Concentration, 50 percent, reduction of growth rate
- Kow: Octanol-Water partition coefficient
- BCF: BioConcentration Factor
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration [REACH]
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- WGK: Wassergefährdungsklasse - Water hazard class, Germany
- Flam. Liq. 2: Flammable liquids, Hazard Category 2
- Met. Corr. 1: Corrosive to metals, Hazard Category 1
- Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
- Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

- * **Data compared to the previous version altered.**