



SAFETY DATA SHEET

DATE OF COMPILATION: 01.02.2018

REVISION: 02.01.2023

VERSION NUMBER: 2.0

Safety data sheet in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. PRODUCT IDENTIFIER

Trade name: **SALT FOR DISHWASHING MACHINES "BRILLY"**

Designation: **Protective salt for dishwashing machines on the basis of sodium chloride.**

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Identified uses: Product for protecting dishwashing machines.

Uses advised against: each type of uses not mentioned above and in point 7.3.

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

Manufacturer: "POL-HUN" M. BIELSKA SP. J.

Address: 11 Listopada 65, 95-040 Koluszki, Poland

Telephone: +48 (44) 725 30 00

E-mail address for a person responsible for the SDS: polhun@polhun.pl

1.4. EMERGENCY TELEPHONE NUMBER

+48 (44) 725 30 19 (LABORATORY „POL-HUN” M. BIELSKA SP. J. (available during working days from 7⁰⁰ a.m. up 20⁰⁰ p.m.)

112- EMERGENCY TELEPHONE NUMBER

SECTION 2 : HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

The mixture is not classified according to REGULATION (EC) No 1272/2008 .

2.2. LABEL ELEMENTS

Hazard pictogram: not applicable.

Signal word: not applicable.

Hazard statements: not applicable.

Precautionary Statements: not applicable.

2.3. OTHER HAZARDS

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The substances of the mixture do not meet the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) (at a concentration equal to or greater than 0,1 % by weight) in accordance with Annex XIII of (REACH) regulation.
 The substances of the mixture are not included in the list established in accordance with Article 59(1) of (REACH) regulation for having endocrine disrupting properties (at a concentration equal to or greater than 0,1 % by weight).
 The substances of the mixture are not identified as having endocrine disrupting properties (at a concentration equal to or greater than 0,1 % by weight) in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100(3) or Commission Regulation (EU) 2018/605(4).

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. SUBSTANCES

not applicable.

3.2. MIXTURES

Hazard substances and substances for which there are Community workplace exposure limits:

Substance name	Concentration (% m/m)	Number CAS	Number WE	Number registration	Classification in accordance with Directive (WE) nr 1272/2008
Sodium chloride	min.99	7647-14-5	231-598-3	-	-

Full texts of hazard statements is listed in section 16.

SECTION 4 : FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

Inhalation:

- remove to fresh air, keep in rest and warm, consult a doctor in event any complains.

Eye:

- flush with plenty of water for at least 10-15 minutes with the eyelids held wide open, avoid strong stream of water, which can cause cornea injury;
- do not use any medicines before getting medical attention;
- remove any contact lenses;
- seek medical attention;

Skin:

- remove contaminated clothing;
- flush with plenty of water;
- seek medical advice.

Ingestion:

- rinse mouth with plenty of water;
- do not induce vomiting;
- if vomiting occurs, the head should be kept low so that the vomit does not enter the lungs (aspiration);
- seek medical attention.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS BOTH ACUTE AND DELAYED

- inhalation – dust may cause cough;
- skin contact - irritation, redness;
- eye contact – irritation;
- ingestion – nausea, vomiting.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

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No data available.

SECTION 5. FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable extinguishing media: extinguishing dry chemical powder, foam, carbon dioxide.

Unsuitable extinguishing media: direct water jet.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Combustion products: **chlorine, hydrochloride, sodium oxide.**

5.3. ADVICE FOR FIREFIGHTERS.

Wear full fire resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

For non-emergency personnel:

- avoid inhalation of fine dust; use ventilation, local exhaust, or breathing protection;
- avoid contact with skin and eyes;
- wear chemical protection gloves and suits;
- wear appropriate goggles.

For emergency responders:

Suitable fabric for personal protective clothing:

- appropriate: gloves - nitrile rubber, neoprene, PVC, according to EN 374; suitability and durability of gloves is dependent on application, frequency, duration of contact, chemical resistance of glove material.
- not appropriate: no data.

6.2. ENVIRONMENTAL PRECAUTIONS

- keep away from drains, surface- and ground-water and soil.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

- clean up spillage promptly;
- collect free product and transfer it to suitable tanks or containers for safe disposal;
- dispose of according to the local regulations.

6.4. REFERENCE TO OTHER SECTIONS

Information regarding safe handling – see section 7.

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

- handle in accordance with good manufacturing practices and personal hygiene;
- avoid contact with skin and eyes;
- do not breathe dust;
- wash hands after use;
- wash any exposed skin immediately after any chemical contact;
- do not eat, drink and smoke in work areas;
- remove contaminated clothing and protective equipment before entering eating areas;
- wear protective equipment.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

- store in a cool, dry, well ventilated area;
- keep containers upright and tightly closed;
- keep away from food, oxidising substances, acids.

7.3. SPECIFIC END USE(S)

No data available.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. CONTROL PARAMETERS**

The mixture does contain substances with the national occupational exposure limit values that correspond to Union occupational exposure limit values in accordance with Directive 98/24/EC, including any notations as referred to in Article 2(3) of Commission Decision 2014/113/EU;

Substance name and CAS number	OEL-TWA		STEL		Country, Publication
	ppm	mg/m ³	ppm	mg/ m ³	
Total dust) [7647-14-5]	-	10	-	-	[Poland] Regulation of the Minister of Labour our and Social Policy of 29 November 2002 on the Maximum Admissible Concentrations and Intensities of Harmful to Health Agents in the Working Environment
Lead and its inorganic compounds [7439-92-1]	-	0,1 inhalable aerosol	-	-	[France]
Lead and its inorganic compounds [7439-92-1]	-	0,15 inhalable aerosol (1) 0,1 (2)	-	-	[Germany AGS]
Lead and its inorganic compounds [7439-92-1]	-	0,15 inhalable aerosol 0,05 respirable aerosol	-	0,60 inhalable aerosol 0,2 respirable aerosol	[Hungary]
Lead and its inorganic compounds [7439-92-1]	-	0,15	-	-	[Italy]
Lead and its inorganic compounds [7439-92-1]	-	0,005	-	0,01 (1)	[Latvia]
Lead and its inorganic compounds [7439-92-1]	-	0,05	-	-	[Poland]
Lead and its inorganic compounds [7439-92-1]	-	0,15	-	-	[Romania]
Lead and its inorganic compounds [7439-92-1]	-	0,15 inhalable aerosol	-	-	[Spain]
Lead and its inorganic compounds [7439-92-1]	-	0,1 (1) 0,05 (2)	-	-	[Sweden]
Lead and its inorganic compounds [7439-92-1]	-	0,15 (1)	-	-	[European Union]

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1]					
Remarks					
European Union	(1) Inhalable fraction Bold-type: Binding Occupational Exposure Limit Value (BOELV)				
France	Bold type: Restrictive statutory limit values				
Germany (AGS)	(1) Bindung Occupational Exposure Limit Value - BOELV (2) Reference value that represents the state of the art. Individual measures are related to this LV.				
Latvia	(1) 15 minutes average value				
Sweden	(1) Inhalable aerosol (2) Respirable aerosol				
Arsenic and its inorganic compounds [7440-38-2]	-	0,01	-	-	{Romania} [Spain]
Cadmium and its compounds as total dust [7440-43-9]	-	0,01	-	0,05	[Latvia]
Cadmium and its compounds as total dust [7440-43-9]	-	0,01	-	-	[Poland]
Cadmium and its compounds as total dust [7440-43-9]	-	0,05	-	-	[Romania]
Cadmium and its compounds as total dust [7440-43-9]	-	0,02	-	-	[Sweden]
Mercury and its inorganic compounds [7439-97-6]	-	0,02 (1)	-	-	[European Union]
Mercury and its inorganic compounds [7439-97-6]	-	0,02	-	-	[France] [Latvia] [Poland] [Romania] [Spain] [Sweden] [the Netherlands]
Mercury and its inorganic compounds [7439-97-6]	-	0,02 (1)	-	0,16 (1) (2)	[Germany AGS]
Mercury and its inorganic compounds [7439-97-6]	-	0,08	-	0,32	[Hungary]
Mercury and its inorganic compounds [7439-97-6]	-	0,02 (1) (2)	-	-	[Italy]
Germany (AGS)	(1) Skin (2) 15 minutes average value				
European Union	(1) including mercuric oxide and mercuric chloride Bold-type: Indicative Occupational Exposure Limit Value (IOELV)				
Italy	(1) Skin (2) When monitoring exposure to mercury and its inorganic divalent compounds, it should taken into account the related techniques of biological monitoring that complete the limit values ??of occupational exposure.				

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The mixture does not contain substances with the national occupational exposure limit values that correspond to Union limit values in accordance with Directive 2004/37/EC, including any notations as referred to in Article 2(3) of Decision 2014/113/EU;

The mixture does not contain substances with the national biological limit values that correspond to Union biological limit values in accordance with Directive 98/24/EC, including any notations as referred to in Article 2(3) of Decision 2014/113/EU;

8.2. EXPOSURE CONTROLS

Personal protective equipment:

Respiratory protection:

- is not required during normal operations in a workplace.

Eye protection:

- use protective goggles if eye contact might occur.

Skin protection:

- in case of long contact with product use protective gloves (nitrile rubber, neoprene, PVC) according to EN 374.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state	solid, granules
Colour:	white
Odour :	odourless
Melting point/freezing point:	800,7°C – 801°C (sodium chloride)
Boiling point or initial boiling point and boiling range:	1413 - 1465°C
Flammability:	the mixture is not ignitable
Lower and upper explosion limit:	does not apply
Flash point:	does not apply
Auto-ignition temperature:	does not apply
Decomposition temperature:	does not apply
pH:	5 – 8 (1 % solution)
Kinematic viscosity:	does not apply
Solubility:	soluble in water; 357 g/l (0°C), 360 g/l (20°C), 391 g/l (100°C)
Partition coefficient: n-octanol/water (log value):	does not apply
Vapour pressure:	does not apply
Density and/or relative density:	~2170 kg/m ³ (20°C)
Relative vapour density:	does not apply
Particle characteristics:	(2 - 5) mm

9.2. OTHER INFORMATION

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY

The reactivity hazards of mixture has not been tested.

10.2. CHEMICAL STABILITY

Product is stable under recommended conditions of storage.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

In temperature >801°C may form combustion products: **chlorine, hydrochloride, sodium oxide.**

10.4. CONDITIONS TO AVOID

Keep away from humidity, high temperatures; keep away from source of heat and source of fire.

10.5. INCOMPATIBLE MATERIALS

Bromine trifluoride, lithium

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10.6. HAZARDOUS DECOMPOSITION PRODUCTS **Chlorine, hydrochloride, sodium oxide.**

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON HAZARD CLASSES DEFINED IN REGULATION (EC) No 1272/2008

Acute toxicity:

The mixture has not been tested. Based on the available data of the ingredients the classification criteria are not met.

Acute toxicity of Sodium Chloride CAS No[7647-14-5]:

LD50 (oral): 3000 mg/kg (rat);
LD50 (oral): 4000 mg/kg (mouse).

Skin corrosion/irritation:

The mixture has not been tested. Based on the available data of the ingredients the classification criteria are not met.

Serious eye damage/eye irritation:

The mixture has not been tested. Based on the available data of the ingredients the classification criteria are not met.

Respiratory or skin sensitization:

The mixture has not been tested. Based on the available data of the ingredients the classification criteria are not met.

Germ cell mutagenicity:

The mixture has not been tested. Based on the available data of the ingredients the classification criteria are not met.

Carcinogenicity:

The mixture has not been tested. Based on the available data of the ingredients the classification criteria are not met.

Reproductive toxicity:

The mixture has not been tested. Based on the available data of the ingredients the classification criteria are not met.

STOT – single exposure:

The mixture has not been tested. Based on the available data of the ingredients the classification criteria are not met.

STOT – repeated exposure:

The mixture has not been tested. Based on the available data of the ingredients the classification criteria are not met.

Aspiration hazard:

Not applicable, the mixture is solid.

Routes of exposure

The mixture has not been tested – no available data.

Symptoms related to the physical, chemical and toxicological characteristics:

- inhalation – dust may cause cough;
- skin contact - irritation, redness;
- eye contact – irritation;
- ingestion – nausea, vomiting.

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

No available data.

Interactive effects:

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No available data.

11.2. **INFORMATION ON OTHER HAZARDS**

Endocrine disrupting properties

The substances of the mixture are not identified as having endocrine disrupting properties for human health (at a concentration equal to or greater than 0,1 % by weight) in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100(3) or Commission Regulation (EU) 2018/605(4).

Other information

No data.

SECTION 12: ECOLOGICAL INFORMATION

12.1. **TOXICITY**

The mixture has not been tested. Based on the available data of the ingredients the classification criteria are not met.

Acute toxicity of Sodium chloride CAS No [7647-14-5]:

Fish – LC50: 7341 mg/l/96h (*Carassius auratus*).
Fish – LC50: 9675 mg/l/96h (*Lepomis macrochirus*).
Fish – LC50: 7650 mg/l/96h (*Pimephales promelas*).
Fish – LC50: 11000 mg/l/96h (*Salmo gairdneri*).
Fish – LC50: 17550 mg/l/96h (*Gambusia affinis*).
fish – LC50: 21500 mg/l/1h (*Cyprinus carpio*).
Daphnia magna – EC50: 3412 mg/l/24h (*Daphnia magna*).
Algae – EC50: 2430 mg/l/5dni (*Nitzschia sp.*)

12.2. **PERSISTENCE AND DEGRADABILITY**

The mixture has not been tested - no available data.

The product is inorganic.

12.3. **BIOACCUMULATIVE POTENTIAL**

The mixture has not been tested - no available data.

The product is inorganic.

12.4. **MOBILITY IN SOIL**

The mixture has not been tested - no available data.

12.5. **RESULTS OF PBT AND vPvB ASSESSMENT**

The mixture has not been tested - no available data.

The components of mixture are not PBT and vPvB.

12.6 **ENDOCRINE DISRUPTING PROPERTIES**

The substances of the mixture are not identified as having endocrine disrupting properties for the environment (at a concentration equal to or greater than 0,1 % by weight) in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100(3) or Commission Regulation (EU) 2018/605(4).

12.7. **OTHER ADVERSE EFFECTS**

The mixture has not been tested - no available data.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. **WASTE TREATMENT METHODS**

- dispose of according to local regulations;
- avoid disposing into drainage systems and into the environment;
- contaminated packaging dispose in the same way as the product itself.
- non-contaminated packages may be recycled

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SECTION 14: TRANSPORT INFORMATION

ADR/RID/ADN/IMDG/IATA:

- 14.1. **UN NUMBER :** not applicable.
- 14.2. **UN PROPER SHIPPING NAME:** not applicable.
- 14.3. **TRANSPORT HAZARD CLASS(ES):** not applicable.
- 14.4. **PACKING GROUP:** not applicable.
- 14.5. **ENVIRONMENTAL HAZARDS:**
The mixture has not been tested - no available data.
- 14.6. **SPECIAL PRECAUTIONS FOR USER**
See sections 6 to 8 of this Safety Data Sheet.
- 14.7. **TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE**
Not applicable.

SECTION 15: REGULATORY INFORMATION

The mixture is not subject to *Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer*, *Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC* or *Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals*

15.1 **SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE**

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

REACH (Article 59) – Candidate List of Substances of Very High Concern for Authorization – not applicable.

REACH (Annex XVII) – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles - not applicable.

REACH (Annex XIV) – List of substances subject to authorization.- not applicable.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission directive 2000/39/EC.

COMMISSION DIRECTIVE (EU) 2017/164 of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU

Directive 2004/37/EC of the European Parliament and of the Council of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work .

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15.2. **CHEMICAL SAFETY ASSESSMENT**

The chemical safety assessment has not been carried out for the mixture.

SECTION 16: OTHER INFORMATION

The changes: section 1, 2, 3, 8, 9, 11, 12,14, 15, 16.

The classification of the mixture is based on:

- the category “acute toxicity” – an additive method;
- the category “skin corrosion/irritation” – an additive method;
- the category “serious eye damage/eye irritation” - an additive method;
- the category “respiratory or skin sensitization” – contents of sensitizing ingredients;
- the category “mutagenicity”- contents of classified ingredients;
- the category “carcinogenicity” – contents of classified ingredients;
- the category “reproductive toxicity” contents of classified ingredients;
- the category “STOT repeated exposure” contents of classified ingredients;
- the category “STOT single exposure” contents of classified ingredients;
- the category “aspiration hazard” – an additive method;
- the category “ecotoxicological properties” – an additive method.

Abbreviations and acronyms used in the safety data sheet:

PBT – *Persistent, Bioaccumulative, Toxic*;
vPvB – *Very Persistent and very Bioaccumulative*;
LD50 – *Lethal Dose, 50%*;
LC50 – *Lethal Concentration 50%*;
EC50 - *half maximal effective concentration*;
IC50 - *half maximal inhibitory concentration*;
OEL – *Occupational Exposure Limit*;
TWA – *Eight – hour Time Weighted Average*;
STEL – *Short Term Exposure Limit*.

List of relevant hazard statements, safety phrases or precautionary statements which are not written out in full under Sections 2 to 15:

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The information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. This document is neither a quality description of the product nor a guarantee of particular properties. The information are to be treated as aid to safety in transport, storage and usage of the product. This does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change.