



SAFETY DATA SHEET

DATE OF COMPILATION: 01.02.2018

REVISION: -

VERSION NUMBER: 1.0

Safety data sheet in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on 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: DISHWASHER FRESHENER FRESH MINT "BRILLY"

Designation: Air freshener for dishwashers.

Contains: trans-p-Menthan-3-one, Cis-5-Methyl-2-(1-Methylethyl)-1-Cyclohexanone, Limonene.

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

Identified uses: Product for refreshing air in dishwashers.

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.)

SECTION 2 : HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

The mixture is classified according to REGULATION (EC) No 1272/2008 as:

Skin Sens. 1 - Skin Sensitization of category 1 with hazard statement:
H317 May cause an allergic skin reaction.

2.2. LABEL ELEMENTS

Hazard pictogram:

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Signal word: **WARNING**

Hazard statements:

H317 May cause an allergic skin reaction.

Precautionary Statements:

P102 Keep out of reach of children.
 P101 If medical advice is needed, have product container or label at hand.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P333+P313 IF skin irritation or rash occurs: Get medical advice/attention.

Contains: trans-p-Menthan-3-one, Cis-5-Methyl-2-(1-Methylethyl)-1-Cyclohexanone, Limonene.

2.3. OTHER HAZARDS

The ingredients of mixture do not meet the criteria for PBT and vPvB.

Thermal burn hazard - Contact with hot product may cause thermal burns.

Product can accumulate static charges which may cause an incendiary electrical discharge.

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
L- Menthol	2,0 – 3,0	2216-51-5	218-690-9	01-2119458866-21-xxxx	Skin Irrit. 2; H315 Eye Irrit. 2; H319
Alkanes, C10-14-iso-	0,5 – 2	90622-58-5	292-460-6	01-2119456810-40-xxxx	Asp. Tox. 1; H304
trans-p-Menthan-3-one	0,5 – 2	89-80-5	201-941-1	-	Skin Irrit. 2; H315 Skin Sens. 1B; H317
Cis-5-Methyl-2-(1-Methylethyl)-1-Cyclohexanone	0,1 – 1,0	491-07-6	207-727-4	-	Skin Irrit. 2; H315 Skin Sens. 1B; H317
Limonene	0,1 – 1,0	5989-27-5	227-813-5	01-2119529223-47-	Flam. Liq. 3; H226,

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				xxxx	Skin Irrit. 2; H315, Skin Sens. 1B; H317, Asp. Tox. 1; H304, Aquatic Acute 1; H400, Aquatic Chronic 1; H410
Vinyl acetate	< 0,91	108-05-4	203-545-4	01-2119471301-50-xxxx	Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT SE 3; H335 Carc. 2; H351

Full texts of hazard statements is listed in section 16.

SECTION 4 : FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

Inhalation:

- not an inhalation hazard under normal conditions of use;
- affected person move into fresh air;
- keep in rest and warm;
- seek medical attention.

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 cold water;
- seek medical advice.
- for hot product: immediately immerse in or flush affected area with large amounts of cold water to dissipate heat, cover with clean cotton sheeting or gauze and get prompt medical attention.

Ingestion:

- rinse mouth with plenty of water;
- in case of unwellness seek medical advice.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS BOTH ACUTE AND DELAYED

No data available.

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

No data available.

SECTION 5. FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable extinguishing media: extinguishing dry chemical powder, foam, carbon dioxide, water fog.
 Unsuitable extinguishing media: direct water jet.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Hazardous combustion products: carbon oxides, acetic acid, flammable hydrocarbons.
 Product can release vapours that readily form flammable mixtures. Vapour accumulation could flash or explode if ignited.

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5.3. **ADVICE FOR FIREFIGHTERS**

Wear full fire resistant protective clothing and self-contained breathing apparatus (SCBA).

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. **PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

For non-emergency personnel:

- 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: nitrile rubber, neoprene;
- not appropriate: no data.

In the event of a large spill notify relevant authorities in accordance with all applicable regulations.

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;
- remove all source of fire from dangerous area;
- do not smoke;
- keep away from sunlight, source of heat and source of fire;
- avoid contact with skin and eyes;
- wash hands after use;
- wash any exposed skin immediately after any chemical contact;
- not to 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 water, sunlight, source of heat and source of fire;**
- **keep away from food;**
- **keep away from acids;**
- **do not smoke in store;**

7.3. **SPECIFIC END USE(S)**

No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. **CONTROL PARAMETERS**

The mixture contains substances with national occupational exposure limits.

Substance name and CAS number	OEL-TWA [mg/m³]	STEL [mg/m³]	Country
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Vinyl Acetate [108-05-4]	10	30	PL
Vinyl Acetate [108-05-4]	18	36	Czech Republic

The mixture contains substances with Community occupational limit values in accordance with Directive 98/24/EC, including any notations as referred to in Article 2(1) of Commission Decision 95/320/EC:

Substance name and CAS number	TWA [mg/m ³]	STEL [mg/m ³]
Vinyl Acetate [108-05-4]	17,6	35,2

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, if necessary use appropriate protection system.

Eye protection:

- use protective goggles if eye contact might occur.

Skin protection:

- wear suitable clothes to prevent odour contamination in the personal clothes, in case of long contact with product use protective gloves according to EN 374.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:
 Physical state: solid
 Colour: green
 Odour: characteristic, mint
 Odour threshold: no data available
 pH: not determined
 Melting point/freezing point: 35 – 110°C
 Initial boiling point and boiling range: not applicable
 Flash point: not determined
 Evaporation rate: not determined
 Flammability (solid, gas): not applicable
 Upper/lower flammability or explosive limits: no data available
 Vapour pressure: no data available
 Vapour density: no data available
 Relative density (20°C): no data available
 Solubility(ies): no data available
 Partition coefficient: n-octanol/water: no data available
 Auto-ignition temperature: not applicable
 Decomposition temperature: no data for product

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Viscosity: not determined
Explosive properties: not applicable
Oxidising properties: not applicable

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

Product has not been tested – no available data.

10.4. CONDITIONS TO AVOID

Keep away from sources of heat and sources of fire.

10.5. INCOMPATIBLE MATERIALS

No available data.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

No data.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

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 Ethylene - Vinyl Acetate Copolymers:

Inhalation – minimally toxic, based on test data for structurally similar materials.

Ingestion - minimally toxic, based on test data for structurally similar materials.

Dermal - minimally toxic, based on test data for structurally similar materials.

Skin corrosion/irritation:

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

Skin irritation of Ethylene - Vinyl Acetate Copolymers:

Negligible irritation to skin at ambient temperatures, based on test data for structurally similar materials.

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.

Eye irritation of Ethylene - Vinyl Acetate Copolymers:

May cause mild, short-lasting discomfort to eyes, based on test data for structurally similar materials.

Respiratory or skin sensitization:

The mixture has not been tested. Based on the available data of the ingredients the mixture is classified as sensitizing - **May cause sensitization by skin contact**. It contains: **trans-p-Menthan-3-one, Cis-5-Methyl-2-(1-Methylethyl)-1-Cyclohexanone, Limonene**.

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.

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The mixture contains **Ethylene - Vinyl Acetate Copolymers**. **Vinyl acetate monomer** has been shown to be weakly carcinogenic in rodents when administered at very high concentrations via the inhalation and oral routes of exposure.

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 product is a solid mixture.

Routes of exposure

The mixture has not been tested – no available data.

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

The mixture has not been tested - no available data. Based on the available data of the ingredients the classification criteria are not met.

Toxicity of Ethylene - Vinyl Acetate Copolymers:

Not expected to be harmful to aquatic organisms.

12.2. PERSISTENCE AND DEGRADABILITY

The mixture has not been tested - no available data.

Persistence and degradability of Ethylene - Vinyl Acetate Copolymers:

Expected to be persistent.

12.3. BIOACCUMULATIVE POTENTIAL

The mixture has not been tested - no available data.

Bioaccumulative potential of Ethylene - Vinyl Acetate Copolymers:

Potential to bioaccumulate is low.

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.

12.6. 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

Road transport (ADR/RID):

- 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
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.

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.

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.

15.2. **CHEMICAL SAFETY ASSESSMENT**

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

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet:

PBT – *Persistent, Bioaccumulative, Toxic*;
vPvB – *Very Persistent and very Bioaccumulative*;
OEL – *Occupational Exposure Limit*.
TWA – *Eight – hour Time Weighted Average*.
STEL – *Short Term Exposure Limit*.

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

Flam. Liq. 2 Flammable liquid of category 2.
Flam. Liq. 3 Flammable liquid of category 3.
Acute Tox. 4 Acute toxicity of category 4.
Skin Irrit. 2 Skin Irritation of category 2.
Eye Irrit. 2 Eye Irritation of category 2.
Skin Sens. 1B Skin Sensitization of category 1B.
Asp. Tox. 1 Aspiration Hazard of category 1.
STOT SE 3 Specific target organ toxicity — single exposure of category 3.
Carc. 2 Carcinogenicity of category 2.
Aquatic Acute 1 Hazardous to the aquatic environment - single exposure of category 1.
Aquatic Chronic 1 Hazardous to the aquatic environment - repeated exposure of category 1.

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

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.