

MATERIAL SAFETY DATA SHEET

HALI

Rev.: 1
Date: 05.05.2015
Page: 1/5

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

1.1 Product identifier

Trade name: HALI

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Fabric softener concentrate

Uses advised against: other than those mentioned above

1.3 Details of the supplier of the safety data sheet

Name and address: PROTIMA Sp. z o.o. ul. Żabikowska 18; 62-050 Komorniki

Telephone: + 48 61 222 7980

e-mail: biuro@protima.pl

1.4 Emergency telephone number

998 or 112, nearest local branch of the State Fire Service (pol. PSP, Państwowa Straż Pożarna)

Toxicological information in Poland 042/ 631 47 24 (between 7 and 15)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Directive 1999/45/EC

Health hazards:

Mixture not classified as hazardous.

Hazardous properties:

unknown

Environmental hazards

unknown

2.2 Label elements

none

2.3 Special hazards

No data available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Components:

Name	Label elements	Classification		Concentration
		According to Directive 67/548/EEC	According to Regulation 1272/2008	
5-chloro-2-methyl-2H - isothiazol-3-one, 2-methyl-2H -isothiazol-3-one, 2-bromo-2-nitropropane-1,3-diol)	CAS: 55965-84-9	T; R23/24/25; C; R34; Xi; R43; N; R50/53	Acute Tox 3; H301; Acute Tox 3; H311; Acute Tox 3; H331; Skin Corr. 1B; H314; Skin Sens. 1; H317; Aquatic Acute 1; H400; Aquatic Chronic 1; H410; Coefficient (M10)	< 0,1 %

fragrance (amyl cinnamal, cinnamyl alcohol, hydroxycitronellal, geraniol, linalool, hexylcinnamaldehyd)

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

If on skin – wash skin with soapy water.

If on eyes – remove contact lenses, rinse eyes with water for at least 15 minutes. If symptoms persist, consult a doctor.

If swallowed – rinse mouth and then drink large amount of water. Consult a doctor.

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

Note to physician: symptomatic treatment (detoxification, supporting vital functions), specific antidote unknown.

MATERIAL SAFETY DATA SHEET**HALI****Rev.: 1**
Date: 05.05.2015
Page: 2/5**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media****Suitable extinguishing media:** water, dry extinguishing media, foam, carbon dioxide (CO₂).**Inadequate extinguishing media:** no data.**5.2 Special hazards**

Preparation is not flammable.

5.3 Advice for firefighters

Special protective equipment respirator for toxic gases, which can be formed after the decomposition at high temperature.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Protect your eyes! Spilled material may cause slippery floor. Wear rubber shoes with an anti-slip sole. Wash contaminated clothing before next use.

6.2 Environmental precautions

Do not discharge the product into natural waters without pretreatment (biological treatment).

6.3 Methods and material for containment and cleaning up

Immediately clean to prevent slipping. Absorb with absorbent material and dispose of.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

Ensure thorough ventilation of stores and work areas. Store away from sources of heat and fire.

7.2 Conditions for safe storage, including any incompatibilities

Store in a tightly closed container, in a cool and dry place. Protect from freezing.

7.3 Specific end use(s)

no data available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**Parameters regarding control:****Threshold Limit Value, Time Weighted Average (TLV-TWA):** no data.**Threshold Limit Value, Short-Term Exposure Limit (TLV-STEL):** no data.**Threshold Limit Value, Ceiling (TLV-CL):** no data.

Recommendations to the procedure of monitoring hazardous substances in air – method of measurements:

– Regulation of the Minister of Health of 20 April 2005 on tests and measurements of factors hazardous for health at the workplace (Journal of Laws No 73, item 645).

– Pn 89/Z-01001/06. Air purity protection. Names, definitions and units. Terminology concerning air quality tests at the workplace.

– PN Z-04008-7:2002. Air purity protection. Sampling. Principles of air sampling in work environment and interpretation of results.

– PN-EN-689: 2002. Workplace atmospheres – guidelines for the assessment of exposure by inhalation to chemical agents by comparison with limit values and measurement strategy.

Note: If the concentration of the substance is determined and known, personal protection equipment should be chosen taking into account the concentration of the substance occurring at the workplace, exposure time and operations performed by the employee.

In an emergency, if the concentration of the substance at the workplace is unknown, use personal protection of the highest recommended protection class.

The employer shall ensure that the applied personal protective equipment, clothing and work footwear are adequate, and shall assure their proper cleaning, maintenance, repair and decontamination.

The recommended pre-employment and periodic medical examinations of employees should be carried out in accordance with the Regulation of the Minister of Health and Social Care of 30 May 1996 on medical examinations of employees, scope of preventive health care for employees and medical certificates issued for purposes provided for in the Labour Code (Journal of Laws No 69/1996, item 332, as amended by No 37/2001, item 451).

Used personal protection equipment should comply with the Regulation of the Minister of Economy of 21 December 2005 on essential requirements for personal protective equipment (Journal of Laws No 259, item 2173).

Individual protective equipment: Legal basis: Regulation of the Minister of Economy of 21 December 2005 on basic requirements for personal protection equipment (Journal of Laws 2005 No 259, item 2173).**Respiratory protection:** no data.**Eye and face protection:** avoid contact with eyes.**Skin protection:** If needed, in case of a long term exposition, use plastic or rubber protective gloves.

Occupational hygiene: observe usual precautions for handling chemicals.

MATERIAL SAFETY DATA SHEET

HALI

Rev.: 1
Date: 05.05.2015
Page: 3/5

Thermal hazards: no data

Environmental exposure controls: no data

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state – milky liquid,

Odour – weak, characteristic for the used fragrance composition.

pH - ca. 8

Temperatures:

boiling point – > 100°C

flash point – non-flammable substance

auto-ignition – non-ignitable

Flammability – product not flammable.

Explosive properties – the preparation is not explosive.

Oxidising properties – the preparation does not have oxidizing properties.

Relative density – ca. $1.0 \pm 0.2 \text{ g/cm}^3$

Solubility(ies):

water – without limitations

ethanol – without limitations

Partition coefficient: n-octanol/water – unknown

9.2 Other information

Minimum ignition energy: [mJ]

Electrical conductivity: [pS/m]

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Product stable under normal conditions.

10.3 Possibility of hazardous reactions

None, if the product is properly processed.

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

None, if the product is properly processed. Decomposition at high temperature may result in forming toxic gases.

SECTION 11: TOXICOLOGICAL INFORMATION

The following information is based on products of similar composition.

Acute toxicity: LD50/oral/rat > 2000 mg/kg.

Primary skin irritation/rabbit: non-irritant

Primary mucous membrane/eyes irritation/rabbit: non-irritant

SECTION 12: ECOLOGICAL INFORMATION

The following information is based on products of similar composition.

Information on elimination:

Research method: OECD – confirmatory test

Degree of elimination: > 70%, Assessment: easy to eliminate

Behavior and environment:

braking and degradation of activity in activated sludge cannot be foreseen when properly applying low concentrations

Ecotoxic effects:

Toxicity to fish: LC50 (48 h): > 500 mg/l, *Leuciscus idus*.

SECTION 13: DISPOSAL CONSIDERATIONS

The product should be destroyed in devices specially prepared for this purpose, complying with the provisions concerning waste disposal or it should be handed on to an authorized waste collector.

Classification of waste – respectively by process/use of the product based on criteria contained in the following applicable provisions:

MATERIAL SAFETY DATA SHEET HALI	Rev.: 1 Date: 05.05.2015 Page: 4/5
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1. The Act of 27 April 2001 on waste (Journal of Laws 2001 No 62, item 628), as later amended.
 2. The Act of 11 May 2001 on packaging and packaging waste (Journal of Laws 2001 No 63, item 638), as later amended.
 3. Regulation of the Minister of Environment of 27 September 2001 on cataloging waste (Journal of Laws 2001 No 112, item 1206).
- The end user should identify and assign an appropriate code to wastes generated as a result of the ongoing process.
- The used packaging should be handed on to the manufacturer or an authorized waste collector. Packaging waste code 150110*.

SECTION 14: TRANSPORT INFORMATION

14.1 Transport by road/rail (ADR/RID)

not subject

14.2 Transport by sea (IMDG)

not subject

14.3 Transport by air (ICAO)

not subject

14.4 Internal Waterways Transport (ADN)

not subject

14.5 Environmental hazards

The substance is not environmentally hazardous according to the criteria of the UN Model Regulations.

14.6 Special precautions for user

The transport should take place with covered means of transport in sealed containers made of plastic. Open transport is allowed.

SECTION 15: REGULATORY INFORMATION

Legislation in Poland:

1. The Act of 25 February 2011 on chemical substances and their mixtures (Journal of Laws of 2011, No 68, item 322).
2. Regulation of the Minister of Health of 8 February 2010 concerning the listing of dangerous substances including their classification and labeling (Journal of Laws 2010 No 27, item 140).
3. Regulation of the Minister of Health of 2 September 2003 on the criteria and classification of chemical substances and preparations (Journal of Laws No 2003 171, item 1666), as later amended, taking into account Commission Directive 2006/8/EC of 23 January 2006.
4. Regulation of Minister of Health of 20 April 2012 concerning the marking of packages of dangerous substances and mixtures, and some chemical mixtures (Journal of Laws 2012 No 445).
5. Regulation of the Minister of Labour and Social Policy of 29 November 2002 on the maximum allowable concentrations and intensity of factors hazardous for health in the work environment (Journal of Laws 2002 No 217, item 1833), as later amended.
6. Regulation of the Minister of Health and Social Care of 20 April 2005 on tests and measurements of factors hazardous for health at the workplace (Journal of Laws 2005 No 73, item 645), as later amended.
7. Regulation of the Minister of Health and Social Care of 30 December 2004 on health and safety related to the presence of chemical agents at the workplace (Journal of Laws 2005 No 11, item 86), as later amended.
8. Regulation of the Minister of Economy of 21 December 2005 on basic requirements for personal protection equipment (Journal of Laws 2005 No 259, item 2173).
9. The Act of 27 April 2001 on waste (Journal of Laws 2001 No 62, item 628), as later amended.
10. The Act of 11 May 2001 on packaging and packaging waste (Journal of Laws 2001 No 63, item 638), as later amended.
11. Regulation of the Minister of Environment of 27 September 2001 on cataloging waste (Journal of Laws 2001 No 112, item 1206).
12. The Act of 28 October 2002 on road transport of dangerous goods (Journal of Laws 2002 No 199, item 1671), as later amended.
13. The Act of 25 July 2005 on drug addiction prevention (Journal of Laws 2005 No 179, item 1485), as later amended.
14. The Act of 13 September 2002 on biocides (Journal of Laws 2002 No 175, item 1433), as later amended.
15. 15. Regulation of the Minister of Economy and Labour of 5 July 2004 on restrictions, prohibitions or conditions of production, marketing or use of dangerous substances, dangerous preparations and products containing them (Journal of Laws 2004 No 168, item 1762), as later amended.

EC Legislation:

1. 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), as later amended.
2. Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents, as later amended.
3. Regulation of the European Parliament and of the Council (EC) No 1272/2008 of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directive 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Official Journal of the European Union L335/1 of 31.12.2008) as later amended.

MATERIAL SAFETY DATA SHEET**HALI****Rev.: 1**
Date: 05.05.2015
Page: 5/5

4. Commission Regulation (EC) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 on REACH.

15.2 Chemical Safety Assessment

no data available

SECTION 16: OTHER INFORMATION

This safety data sheet was prepared based on data provided by manufacturers of components used in the product. The above information was prepared based on the current state of knowledge and experience. It does not, however, guarantee product properties nor quality specification and cannot be grounds for complaints. The product should be transported, stored and used according to applicable regulations, good practices and occupational hygiene. The manufacturer is not liable for any losses arising directly or indirectly from using the above interpretation of regulations or instructions. The presented information cannot be used for any mixtures with other substances.

Making use of the information and the application of the product are not controlled by the manufacturer. It is user's responsibility to create suitable conditions for safe handling of the product.
