

Material Safety Data Sheet

Creation Date: 20.10.2008

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1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

1.1 Identification of the preparation: TOP FRESH GT lendi**1.2 Use of the preparation:** A ready-to-use air-freshener of fresh fragrance.**1.3 Company identification:** TENZI Sp. z o.o., 72-002 Dołuje, Skarbimierzycze 18, e-mail: tenzi@tenzi.pl, www.tenzi.pl
tel. +48 91 31 19 777, fax +48 91 31 19 779**1.4 Emergency Telephone:** +48 91 31 19 777 (Mon-Fr. 8-16); or 998

2. HAZARDS IDENTIFICATION

The product is not classified as irritating or harmful in accordance to Ordinance of the Minister of Health from 2nd September 2003 on criteria and classification of chemical substances and chemical preparations (Journal of Law No 171, item 1665 and 1666)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Composition (according to: 648/2004/WE): <5% non-ionic and cationic surfactants, odour composition (Linalool, Geraniol, Hexyl cinnamal, Coumarin); remaining components – auxiliary components

Hazardous ingredients	Concentration [% weight]	CAS Number	WE Number	Index Number	Caution signs	R signs
Cationic surfactants	< 1	68424-85-1	270-325-2	---	C, Xn, N	R34, R22, R50

The full texts of R symbols are in section 16.

4. FIRST AID MEASURES

INHALATION – In case of inhalation poisoning symptoms (cough, shortness of breath, giddiness) move to fresh air. Ensure the calm in half-lying or half-sitting position, exercise can cause emphysema. Protect against heat loss. Seek medical advice.

SKIN CONTACT – In case of clothes poisoning, immediately take them off and rinse the skin with plenty of water (current water is the best). In case of the skin irritation or burns consult a doctor.

EYE CONTACT – In case of contact with eyes, rinse them immediately with plenty of cold water (at least during 15 minutes) keep the eyes open, seek medical advice.

INGESTION – In case of ingestion, do not cause vomiting. Give water to drink.. Do not give any other neutralizing agents. Immediately consult a doctor, show label if possible

5. FIRE FIGHTING MEASURES

NON-FLAMMABLE

SUITABLE EXTINGUISHING MEDIA: Appropriate to the environment surrounding the product.

EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS: All known extinguishing media can be used.

SPECIAL EXPOSURE HAZARDS: Non-flammable preparation.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: Use self-contained breathing apparatus and chemically

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protective clothing.

FURTHER INFORMATION: In case of fire inform all persons nearby on fire, evacuate third persons from danger area, call the call fire brigade. If possible remove the containers away from the influence of fire and high temperature. If impossible cool the container by stream of water. The after burning residues should be removed.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: protective acid resistant clothing, self-contained breathing apparatus; protective acid resistant gloves, protective glasses.

Avoid direct skin and eyes contact; ensure suitable ventilation.

ENVIRONMENTAL PRECAUTIONS AND METHODS FOR CLEANING UP: In case of unintended release substance into environment inform on emergency and remove the source of leak. Prevent from entering sewers. If it is possible eliminate the leak (close liquid flow, make tight, damaged container put into protect leak proof wrapping) For huge leak, absorb the place where it can be accumulated, pump out if possible. Small quantity of leak absorb by inflammable absorbing material (sand, solid, sawdust, fines limestone), and next place in the appropriate waste container- pass to utilization. Polluted surface wash out.

7. HANDLING AND STORAGE**7.1. HANDLING**

Handle with preparation very carefully. Require use the appropriate individual protection equipment – see point 8.

Mixing only with water. Under no circumstances do not mix with other chemical substances.

Person with skin or respiratory system allergy should not have contact with this substances.

Avoid risks – before usage read operating instruction carefully.

After usage close tightly, keep away from unauthorized persons.

During operation with substances ensure good air-ventilation room in order to avoid inhalation poisoning.

7.2. STORAGE

Keep only in original container made from plastic (polyethylene with the high quality of HDPE). Do not pour to replaceable containers. Keeping the container in dry, tightly closed rooms with temperature + 5 ÷ 30° C with the good ventilation, rooms should have easy clean floor alkali resistant. Keep away from sun and heat. Keep away from ignition and fire sources.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1. EXPOSURE LIMIT VALUES**

Control parameters of concentration (in acc. to Ordinance of Minister of Labour and Social Policy from 29th of November 2002, (Journal of Law, No 217, item 1833 with further amendments – Journal of Law No 212, item 1796, from 10th of October 2005)):

Cationic surfactants (data for the concentrated substance)

NDS, NDSCh: - no data available

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

- Ordinance of the Minister of Health from 20th April 2005 on test and measurements of the factors harmful for work environment (Journal of Law No 73, item 645)

- PN-89/Z-01001/06 – Air protection against pollution.. - names, definitions and units. Terminology concerning test of air pollution around workplaces.

- PN-89/Z-04008/07 – Air protection against pollution. Samples. The principles of getting samples of air around workplace and result analysis.

- PN-EN-689:2002 – Air around workplace- Guidelines of assessment of inhalation exposure on chemical substances by comparison to acceptable concentration rates and measurement strategy.

Notice: When the concentration of substance is known, personal protection should be chosen including this concentration around workplace, time of exposure and operations performed by worker. In emergency, if the concentration around workplace is unknown, personal protection of high protection class must be used.

8.2. EXPOSURE CONTROLS

Used personal protection should comply with the requirements of Ordinance of the Minister of Economy from 21st December 2005 on essential requirements of personal protection measures (Journal of Law No. 259, item 2173):

RESPIRATORY PROTECTION: Not required

HAND PROTECTION: Not required

EYE PROTECTION: Not required

SKIN PROTECTION: Not required

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. GENERAL INFORMATION**

FORM - liquid

ODOUR - characteristic

9.2. IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

pH – 7 ± 1

TEMPERATURES

a) BOILING POINT – no data available

b) MELTING POINT – no data available

c) FLASH POINT - no data available

d) AUTOIGNITION – no data available

FLAMABILITY – no data available

EXPLOSIVE PROPERTIES - no data available

OXIDATIVE PROPERTIES – no data available

VAPOR PRESSURE – no data available

RELATIVE DENSITY – $1,010 \pm 0,020 \text{ g/cm}^3$

DISSOLUBILITY

a) WATER – full

b) ORGANIC SOLVENT – no data available

PARTITION COEFFICIENT n-octanol /water – no data available

VISCOSITY – no data available

VAPOUR DENSITY – no data available

VAPORIZATION RATE – no data available

9.3. OTHER INFORMATION

INDEX OF REFRACTION – 12 % Brix* $\pm 5\%$

*- presented as weight % of sucrose content in water solution.

10. STABILITY AND REACTIVITY

Stabile under normal storing conditions see: Point 7).

10.1.CONDITIONS TO AVOID: strong heated rooms without ventilation. protect from long term exposure on light and pollution.

10.2.MATERIALS TO AVOID: no data available

10.3. HAZARDOUS DECOMPOSITION PRODUCTS: no data available

11. TOXICOLOGICAL INFORMATION**EXPOSURE**

-**RESPIRATORY:** long-term using without ventilation can cause irritation of upper respiratory tract

-**INGESTION:** If swallowed, can irritate mucosa.

-**SKIN CONTACT:** Can cause irritation in long-term contact.

-**EYES CONTACT:** may cause slight temporary eye irritation.

TOP FRESH GT lendi**DETAILS OF PARTICULAR COMPONENTS (IN ACCORDANCE TO THE PARTICULAR SUBSTANCE DATA SHEET):****Cationic surfactants (data for the concentrated substance)**

LD50 200-2000 mg/kg (rat, orally)

Inhalation: caustic for respiratory system.

Consumption: harmful if swallowed, can cause mouth, stomach and throat burnings

Corrosive for eyes and skin

12. ECOLOGICAL INFORMATION

Surface-active agents contained in preparation comply with the biodegradability criteria pursuant to Ordinance EC 648/2004 on detergents.

ECOTOXICITY EFFECTS (in acc. MSDS):**Cationic surfactants (data for the concentrated substance)**

Product is classified as dangerous for the environment. Toxic for water organisms.

Ecotoxicity data for main ingredient:

- for fishes: LC50 0,85 mg/l/96h

- for daphe: EC50 0,02 mg/l/48h

- for algae: IC50 < 1 mg/l/72h

Product is easily biodegradable. Coefficient of fission logPow < 3. Low risk of bioaccumulation.

13. DISPOSAL CONSIDERATIONS**RESIDUES OR WASTES:**

Do not mix the substance with other liquid wastes. Do not enter to the sewage. The product should be totally used pursuant to its recommendation, if impossible the product or residues must be disposed as special wastes.

Waste code and type: 07 06 04 - other halogenated solvents, washing liquids and mother liquors.

Code classification pursuant to the Ordinance of the Minister of Environment from 27th September 2001 on waste records (Journal of Law No 112, item 1206).

PACKAGING:

Polluted packaging should be totally empty. Empty container rinse with water several times, which should be disposed as preparation. Empty packaging can be stored in containers designated to the collecting the plastic or refer to company specialized in utilization.

Comply with the regulations from Act from 27th April 2001 on wastes (Journal of Law No 62, item 628) with further amendments.

Comply with the regulations from Act from 11th May 2001 on packaging and packaging waste (Journal of Law No 63, item 638) with further amendments.

Waste code and type: 15 01 02 - plastic packaging.

14. TRANSPORT INFORMATIONTRADE NAME: **TOP FRESH GT lendi**

HAZARDOUS CLASS IN TRANSPORT IN ACCORDANCE TO ADR/RID: does not apply

NME OF HAZARDOUS MATERIAL: does not apply

PACKAGING GROUP: does not apply

UN CODE: does not apply

WARNING LABEL: does not apply

15. REGULATORY INFORMATION

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LABELLING (according to Ordinance of the Minister of Health and Social Care from 2nd September 2003 on labeling of chemical substances and chemical preparations (Journal of Law No 173, item 1679) and Ordinance of the Minister of Health from 9th November 2004 changing the ordinance on labelling of chemical substances and chemical preparations (Journal of Law No 260, item 2595):

Marketing name: **TOP FRESH GT lendi**

Warning signs: does not apply

Signs indicating type of hazard: does not apply

Signs indicating conditions of safe usage:

S2- Keep out of the reach of children.

ONLY FOR PROFESSIONAL USE

This Material Substance Data Sheet was prepared on the basis on following regulations:

- Act from 11th January 2001 on chemical substances and chemical preparations (Journal of Law No 11, item 84) with further amendments.
- Ordinance of the Minister of Health from 28th September 2005 on hazardous substances record ant their classification and symbols (Journal of Law No 201, item 1674 and 1675).
- Ordinance of the Minister of Health from 3rd July 2002 on Material and Hazardous Substances Safety Data Sheet (Journal of Law No 140, item 1171) and Ordinance of the Minister of Health from 14th December 2004 changing the ordinance on Material and Hazardous Substances Safety Data Sheet (Journal of Law No 2, item 8).
- Ordinance of the Minister of Health from 2nd September 2003 on criteria and classification of chemical substances and chemical preparations (Journal of Law No 171, item 1665 and 166) and Ordinance of the Minister of Health from 29th October 2004 changing the ordinance on criteria and classification of chemical substances and chemical preparations (Journal of Law No 243, item 2440).
- Ordinance of the Minister of Health from 2nd September 2003 on labeling of chemical substances and chemical preparations (Journal of Law No 2003, No 173, item 1679) and Ordinance of the Minister of Health from 9th November 2004 changing the ordinance on labeling of chemical substances and chemical preparations (Journal of Law 2004, No 260, item 2595).
- Ordinance of the Minister of Health from 14th August 2002 on obligation of handing-over the Material Substance Data Sheets non classified as hazardous (Journal of Law No 142, item 1194).
- Ordinance of the Minister of Health from 17th January 2003 on information on hazardous substances which do not required handing-over the Material Substance Data Sheet (Journal of Law No 19, item 1701).
- Act from 26th June 1974, Labor Code (Journal of Law No 21, 1998r, item 94).
- Ordinance of the Minister of Economy and Labor from 5th July 2004 on limitation of the prohibition and production conditions, turnover and use of hazardous substances or substances containing their products (Journal of Law No 11, item 1762) and Ordinance of the Minister Economy and Labour from 21st February 2005 Journal of Law No 39, item 1796, from 4th July 2006. Journal Of Law 2006, No 127, item 887 , from 11th December 2006. Journal of Law 2006, No 239, item 1731, from 29th December 2006. Journal of Law 2007, No 1, item 1) changing the ordinance on limitation of the prohibition and production conditions, turnover and use of hazardous substances or substances containing their products.
- Directive (EC) no 648/2004 of European Parliament and Council from 31st March 2004 on detergents and Directive of European Commission (EC) No 907/2006 changing the directive (EC) no 648/2004 of European Parliament and Council on detergents in order to adjustment of its attachments III and VII.
- Directive (EC) no 1907/2006 of European Parliament and Council from 18th December 2006 on register, assessment and issue permissions and using the limitation of chemicals (REACH), establishing the European Chemicals Agency, changing the directive 1999/45/EC and annulling the directive (EEC) Council No 793/93 and directive of Commission 9EC) no 1488/94, as also Directive of Council 76/769/EEC and directive of Commission 91/155/EEC, 93/67/EEC, 93/105/EEC and 2002/21/EC

16. OTHER INFORMATION

Aforementioned information are worked out on the basis of the current state of art and product as it is used. Data concerning this product are presented in order to comply with the security requirements and not to guarantee its special properties. In case when use conditions are not under producer's control, the responsibility for safety use lies on user.

The employer is obliged to inform all employees, who have a contact with this product, on hazardous and personal protection listed in this Material Substances Data Sheet.

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This Material Safety Data Sheet is worked out on the basis of Materials Safety Data Sheets attached to the preparation composition by producers and on the basis of regulations on hazardous substances and chemical preparations. The classification was made on the basis of maximum concentration of hazardous substances.

The full text of any R phrases referred to under headings 2 and 3 of the Safety Data Sheets.

C – Caustic

Xn – Harmful

N – Dangerous for environment

R22 – Harmful if swallowed

R34 – Can cause burnings

R50 – Very toxic to aquatic organisms

Detail principles of use the product are on Technical Data Sheet on www.tenzi.pl

Trainings: Persons dealing with the hazardous substances marketing should be trained with regard to operating, and health and safety. Drivers should be trained and obtain proper certification in accordance to ADR regulations.

Date of expiry in normal conditions – 36 months from the production date.

Amendments to the last version:

- General update. Update on MSDS available on www.tenzi.pl

This Material Safety Data Sheet is uniform document containing 6 pages.

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