



SAFETY DATA SHEET /according to Commission Regulation (EU) 2015/830/
WAVE DEODORIZER, WAVE DEODORIZER 2.0, WAVE DEODORIZER 3D

Date of Issue: 27.7.2015

Date of Revision: 4.9.2015

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

1.1 Product identifier:

Trade name: **WAVE DEODORIZER, WAVE DEODORIZER 2.0, WAVE DEODORIZER 3D (Spiced apple)**

CAS Number: Not applicable for the mixture.

Contains: 3-Phenylprop-2-enal (Cinnamaldehyde) (CAS 104-55-2) < 6 %

2-Methyl-3-phenyl-2-propenal (CAS 101-39-3) < 3 %

Phenol, 2-methoxy-4-(2-propenyl)- (Eugenol) (CAS 97-53-0) < 3 %

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

Urinal deodorizer (Spiced apple)

Uses advised against: For intended use only. Do not use with food or beverage. Not for oral consumption.

1.3 Details of the supplier of the safety data sheet:

Manufacturer/supplier:

KALVEI, s. r. o.

Address: Americká 22, 120 00 Praha 2, Czech Republic

Id. No.: 60720832 VAT No.: CZ60720832

Phone: +420 222 515 930 Fax: +420 222 513 735

Contact person: Petr Bylok

www.kalvei.cz, Petr.Bylok@kalvei.cz

Competent person responsible for the safety data sheet: Eva.Vankova@abitec.cz

1.4 Emergency telephone number: **800 424 9300 (spill/release)**

+353 1 809 2166 (non-stop)

Poisons Information Centre of Ireland

Beaumont Hospital, PO Box 1297 Beaumont Road, Dublin

E-mail: npicdublin@beaumont.ie

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

The mixture does meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

Hazard class and category:

Flammability: --

Acute toxicity: **Acute Tox. 4, H302**

Acute Tox. 4, H312

Skin corrosion/irritation: --

Respiratory/skin sensitisation: **Skin Sens. 1, H317**

Serious damage to eyes/eye irritation: **Eye Irrit. 2, H319**

Aspiration hazard: --

Specific target organ toxicity (STOT) – single exposure: --

Specific target organ toxicity (STOT) – repeated exposure: --

Hazardous to aquatic environment: **Aquatic Acute 1, H400**

Aquatic Chronic 2, H411

Hazard statements:

Harmful if swallowed. Harmful in contact with skin. May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

The most important adverse physical effects:

The mixture is not flammable, is combustible. Thermal decomposition under high temperatures or burning may release a variety of products from simple hydrocarbons to toxic/irritating gases including carbon monoxide and carbon dioxide. Prevent from heating or burning.

The most important adverse human health effects:

The mixture contains some chemicals which may cause allergic skin reaction. Sensitive people should avoid the contact with the mixture. The mixture contains small amount of chemicals, which are classified as hazardous to human health and aquatic life. Used quantities are too small to constitute any practical risks to health or the environment. During long lasting inhalation can cause headache. Avoid long lasting inhalation exposure. Keep carefully the instructions for use.

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The most important adverse environmental effects:

The mixture is classified as hazardous to toxic life. Keep the users' instructions to protect aquatic environment. The empty package you should dispose as hazardous waste. Full text of the classification and hazard statements is given in the section 16.

2.2 Label elements

Signal word: Warning

Pictograms: GHS07, GHS09



Hazard statements:

H302 Harmful if swallowed.**H312** Harmful in contact with skin.**H317** May cause an allergic skin reaction.**H319** Causes serious eye irritation.**H411** Toxic to aquatic life with long lasting effects.

Precautionary statements:

P103: Read label before use.**P273:** Avoid release to the environment.**P280:** Wear protective gloves/protective clothing/eye protection.**P302 + P352:** IF ON SKIN: Wash with plenty of water.**P333 + P313:** If skin irritation or rash occurs: Get medical advice/attention.**P501:** Dispose of contents/container in accordance with local/national regulation..

Dangerous components: 3-Phenylprop-2-enal (Cinnamaldehyde) (CAS 104-55-2) < 6 %

2-Methyl-3-phenyl-2-propenal (CAS 101-39-3) < 3 %

Phenol, 2-methoxy-4-(2-propenyl)- (Eugenol) (CAS 97-53-0) < 3 %

Supplemental information on the label:

Contains Coumarin; Vanillin; Oils, clove; Terpenes and Terpenoids, sweet orange-oil. May produce an allergic reaction.

For professional use only.

Product identifier: **WAVE DEODORIZER, WAVE DEODORIZER 2.0 (Spiced apple)**

Urinal deodorizer

Manufacturer/supplier: **KALVEI, s. r. o.**, Americká 22, 120 00 Praha 2, Czech Republic;

Phone: +420 222 515 930 Fax: +420 222 513 735

2.3 Other hazards:

The mixture does not meet the criteria for PBT or vPvB components.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Solid plastic slow-release deodorizing preparation in the form of a moulded urinal screen. It is made from pigmented thermoplastic impregnated with a fragrance composition and colour to represent the fragrance.

Form/Shape: Screen weighs approximately 63g in the form of a circle with open slots and protrusions (7" diameter approximately).

3.2 Mixtures

Chemical substance	Content [%]	CAS No.	EC No.	Index No.
Ethylene-vinyl acetate; copolymer	60 – 80	24937-78-8	Not given	Not given
2-(1,1-Dimethylethyl)-cyclohexanol acetate	5 – 10	88-41-5	201-828-7	--
3-Phenylprop-2-enal (Cinnamaldehyde)	3 – 6	104-55-2	203-213-9	--
5-Heptyldihydro-2(3H)-furanone	0,3 – 3	104-67-6	203-225-4	--
2-Methyl-3-phenyl-2-propenal	0,3 – 3	101-39-3	202-938-8	--
1,1'-Oxydibenzene	0,3 – 3	101-84-8	202-981-2	--
Benzyl benzoate	0,3 – 3	120-51-4	204-402-9	607-085-00-9
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno [5,6-c]pyran galaxolide (HHCB)	0,3 – 3	1222-05-5	214-946-9	603-212-00-7

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Phenol, 2-methoxy-4-(2-propenyl)-; (Eugenol)	0,3 – 3	97-53-0	202-589-1	--
Diethyl malonate	0,3 – 3	105-53-3	203-305-9	--
2H-1-Benzopyran-2-one (Coumarin)	< 0,3	91-64-5	202-086-7	--
Benzaldehyde, 4-hydroxy-3-methoxy- (Vanillin)	< 0,3	121-33-5	204-465-2	--
Oils, clove	< 0,3	8000-34-8	--	--
Terpenes and Terpenoids, sweet orange oil	< 0,3	68647-72-3	--	--

Classification of the components

Chemical name	Hazard pictograms	Classification	Concentration limits
Ethylene-vinyl acetate; copolymer*	The compound is not classified as dangerous compound.		
2-(1,1-Dimethylethyl)-cyclohexanol acetate*	GHS09	Aquatic Chronic 2, H411	
3-Phenylprop-2-enal (Cinnamaldehyde)*	GHS07	Acute Tox. 4, H312 Skin Irrit. 2, H315 Skin Sens. 1, H317	Skin Irrit. 2, H315: c ≥ 10 % Skin Sens. 1, H317: c ≥ 1 %
5-Heptyldihydro-2(3H)-furanone*	GHS09	Aquatic Chronic 2, H411	
2-Methyl-3-phenyl-2-propenal*	GHS07	Skin Sens. 1, H317	Skin Sens. 1, H317: c ≥ 1 %
1,1'-Oxydibenzene*	GHS09	Aquatic Chronic 2, H411	
Benzyl benzoate	GHS07	Acute Tox. 4, H302 Aquatic Chronic 2, H411	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno [5,6-c]pyran galaxolide (HHCB)	GHS09	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	
Phenol, 2-methoxy-4-(2-propenyl)-; (Eugenol)*	GHS07	Eye Irrit. 2, H319 Skin Sens. 1, H317	Eye Irrit. 2, H319: c ≥ 10 % Skin Sens. 1, H317: c ≥ 1 %
Diethyl malonate*	GHS07	Eye Irrit. 2, H319	Eye Irrit. 2, H319: c ≥ 10 %
2H-1-Benzopyran-2-one (Coumarin)*	GHS07	Skin Sens. 1, H317	Skin Sens. 1, H317: c ≥ 1 %
Benzaldehyde, 4-hydroxy-3-methoxy- (Vanillin)*	GHS07	Skin Sens. 1, H317	Skin Sens. 1, H317: c ≥ 1 %
Oils, clove*	GHS07	Skin Irrit. 2, H315 Skin Sens. 1, H317	Skin Irrit. 2, H315: c ≥ 10 % Skin Sens. 1, H317: c ≥ 1 %
Terpenes and Terpenoids, sweet orange oil*	GHS07	Skin Sens. 1, H317	Skin Sens. 1, H317: c ≥ 1 %

* The compound is not classified in the List of harmonized classification. For the classification were used data from databases and SDSs.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

If following the instruction for use no health hazards occur, immediate medical attention is not necessary. In any health complication or in case of doubts, seek medical advice. Show this safety data sheet or the label to the doctor. In case of health problems, do basic life support. Keep unconscious person in recovery position, give nothing by mouth. Do not induce vomiting. In case of spontaneous vomiting avoid vomit aspiration.

Inhalation:

In relation to the product form, inhalation exposure is improbable. Remove the affected person to fresh air and keep warm and at rest. If breathing difficulties occur (lack of oxygen, irregular breathing), apply artificial respiration. In case of long-lasting breathing problems seek medical advice.

Skin contact:

Wash thoroughly by water and soap. If skin irritation or allergic reaction occurs, seek medical advice.

Eye contact:

Eye contact is improbable. Remove contact lenses, if present and easy to do. Rinse wide open eyes with plenty of water, from inner canthus to the outer, mainly the space under eyelids.

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Ingestion:

Possibility of ingestion limited due to product form and difficulty to chew and ingest. In the event of ingestion, do not induce vomiting, rinse mouth thoroughly with water. Seek medical advice.

- 4.2 Most important symptoms and effects, both acute and delayed
The mixture contains some chemicals which may cause sensitising or allergic skin reaction. Sensitive people should avoid the contact with the mixture. The mixture contains small amount of chemicals, which are classified as hazardous to human health and aquatic life. Used quantities are too small to constitute any practical risks to health or the environment. During long lasting inhalation can cause headache. Avoid long lasting inhalation exposure.
- 4.3 Indication of any immediate medical attention and special treatment needed
In case of usual usage and if following the instructions for use no health hazards occur, immediate medical treatment is not necessary. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

- 5.1 Extinguishing media
Suitable extinguishing media: The mixture is not flammable. Use extinguishing media appropriate for the surrounding fire (dry powder, CO₂, foam, water spray, mist).
Unsuitable extinguishing media: None
- 5.2 Special hazards arising from the substance or mixture:
Thermal decomposition under high temperatures or burning may release a variety of products from simple hydrocarbons to toxic/irritating gases including carbon monoxide and carbon dioxide. Do not breathe the decomposition products in.
- 5.3 Advice for firefighters:
Full protective clothing should be worn before a confined fire space is entered. Self-contained breathing apparatus should be worn.

Other information:
Control run-off water by containing and keeping it out of watercourses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures
No special requirements in case of accidental release. Keep usual safety requirements, avoid contact with skin.
- 6.2 Environmental precautions
Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Avoid or minimise the creation of environmental contamination. Keep usual requirements to protect the environment.
- 6.3 Methods and material for containment and cleaning up
In relation to the product form the release is improbable. Prevent from releasing the unused product into the environment.
- 6.4 Reference to other sections:
Personal protective equipment – section 8. Unused mixture treatment – section 13.

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling:
Keep away from direct flames, open fire and heating. Avoid contact with skin and eyes, use personal protective equipment. Respect the instructions in the label. Do not eat, drink and smoke in working area. Wash hands with soap and water after use and before break or eating. Keep general hygiene measures for handling.
- 7.2 Conditions for safe storage, including any incompatibilities:
Keep in cool, dry conditions in original containers at no more than 30° C.
Keep out of the reach of children. Store apart from food, beverages and feed.
Keep the user's instruction.
Quantity limits under storage conditions: not given
- 7.3 Specific end use(s): Urinal deodorizer.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: Not established

8.2 Exposure controls:

Avoid contact with skin and eyes. Respect the instructions in the label. Do not eat, drink and smoke in working area. Keep general hygiene measures for handling. After skin contact wash thoroughly.

Adjust personal protective equipment to the character of the work.

- Eye/face protection:
Eye contact is improbable, eye protection is not necessary.
- Skin protection:
Avoid long-lasting skin contact. Wash affected skin thoroughly.
- Hand protection:
Protective gloves – Follow the producer recommendation. Material should be resistant to the substances of the mixture. Test before the first use. Change damaged gloves.
Sensitive people and allergic person should avoid skin contact with the product.

- Respiratory protection:
Not needed.

Environmental exposure controls

Keep usual requirements to protect the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Thermoplastic urinal screen infused with fragrance oil
Colour:	Red
Odour:	Spiced apple
pH:	Not determined
Melting point/freezing point:	Cca 60 °C
Initial boiling point and boiling range:	Not determined
Flash point:	Not applied
Evaporation rate:	Not determined
Flammability (solid, gas):	The mixture is not flammable
Upper/lower flammability or explosive limits: Upper (% vol.):	The mixture is not explosive.
Lower limit (% vol.):	--
Vapour pressure (at 20 °C):	Not determined/applicable
Vapour density:	Not determined/applicable
Relative density (at 20 °C):	Not determined
Solubility:	In water – insoluble
	In fat – not determined
Partition coefficient <i>n</i> -octanol/water:	Not determined
Auto-ignition temperature:	The mixture is not flammable
Viscosity (kinematic 40 °C):	Not determined
Oxidising properties:	Intact

9.2 Other information: None

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

If the user´s instructions are followed, there is no risk of dangerous reactions.

10.2 Chemical stability:

The mixture is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions:

Following recommended use directions there are no hazardous reactions.

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- 10.4 Conditions to avoid:
Very high temperatures, open flames, contact with incompatible materials.
- 10.5 Incompatible materials:
Strong oxidizing agents. Avoid contact with usual household chemicals.
- 10.6 Hazardous decomposition products:
No decompositions under usual conditions. Thermal decomposition under high temperatures or burning may release a variety of products from simple hydrocarbons to toxic/irritating gases including carbon monoxide and carbon dioxide.
- Other information: None

SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects
The mixture includes a small quantity of volatile fragrance chemicals which may contain small amounts of substances that can cause an allergic reaction, are harmful if swallowed and if on skin, irritating to the eyes. In relation of the product form it constitutes any risk for human health.
- Acute toxicity:
The mixture is classified as harmful if swallowed and in contact with skin. Ingestion is improbable.
- Skin corrosion/irritation:
The mixture is not classified as irritating to skin.
- Serious eye damage/irritation:
The mixture is classified as irritating to eyes. Eye contact is improbable.
- Respiratory or skin sensitisation:
The mixture may cause an allergic skin reaction.
- 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.
- Specific target organ toxicity – single exposure:
Based on available data, the classification criteria are not met.
- Specific target organ toxicity – repeated exposure:
Based on available data, the classification criteria are not met.
- Aspiration hazard:
Based on available data, the classification criteria are not met.
- Other information: Experience at human:
The mixture contains some chemicals which may cause allergic skin reaction. Sensitive people should avoid the contact with the mixture. The mixture contains small amount of chemicals, which are classified as hazardous to human health and aquatic life. Used quantities are too small to constitute any practical risks to health or the environment. During long lasting inhalation can cause headache. Avoid long lasting inhalation exposure. If respecting the instructions for use, no adverse effect for human health occurs. No tests on animals were performed.

SECTION 12: ECOLOGICAL INFORMATION

No specific information has been established regarding the product.

- | | | |
|------|------------------------------------|--|
| 12.1 | Toxicity | According to the conventional method the product is classified as harmful to aquatic organisms, or causing long-term effects in the aquatic environment. |
| 12.2 | Persistence and degradability | Not determined/applicable |
| 12.3 | Bioaccumulative potential | Not determined/applicable |
| 12.4 | Mobility in soil | Not determined/applicable |
| 12.5 | Results of PBT and vPvB assessment | The mixture does not contain PBT and vPvB compounds. |
| 12.6 | Other adverse effects | Prevent leakage of larger amount of the mixture. Avoid entering the drains, soil and surface water or groundwater. |

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose in accordance with Local Authority requirements e.g., for used product, as household waste.

Container treatment: Dispose in accordance with national regulations, in the system of separated or communal waste.

SECTION 14: TRANSPORT INFORMATION

Basic information for transport:

Transport in appropriate containers. Comply with the prescribed labelling.

The transport of the mixture is not regulated after ADR, RID, ICAI/IATA, IMDG.

- 14.1 UN number Not determined
- 14.2 UN proper shipping name Not determined
- 14.3 Transport hazard class(es) Not determined
- 14.4 Packing group Not determined
- 14.5 Environmental hazards Not determined
- 14.6 Special precautions for user Not determined
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not determined.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

- Regulation (EC) No. 1272/2008 of the European Parliament and of the Council 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 (CLP), particularly

Commission regulation (EC) No. 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

Commission regulation (EC) No. 286/2011 of 10 March 2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

Commission regulation (EC) No. 487/2013 of 8 May 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

Commission regulation (EC) No. 605/2014 of 5 June 2014 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

- Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and amendments.
- Commission regulation (EU) No. 453/2010 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and amendments.
- Commission regulation (EU) 2015/830 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and amendments.

Notice:

Regulations listed above are only basic directives in this safety data sheet. Other additional regulations, which can add these above, may exist. We do refer to state, local and international laws and directions which may differ according to the country.

15.2 Chemical safety assessment

Chemical safety assessment has not been carried out for this mixture.

SECTION 16: OTHER INFORMATION

Hazard statements used in this safety data sheet:

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

Abbreviations used in this safety data sheet:

Acute Tox. 4 – Acute toxicity, category 4

Skin Sens. 1 – Respiratory/skin sensitisation, category 1

Eye Irrit. 2 – Serious damage to eyes/eye irritation, category 2

Aquatic Acute 1 – Acute aquatic hazard, category 1

Aquatic Chronic 1, 2 – Long-term aquatic hazard, category 1, 2

PBT – persistent, bioaccumulative and toxic

vPvB – very persistent and very bioaccumulative

LD₅₀ – Lethal dose, 50 percent

ADR – Agreement on Dangerous Goods by Road – Europe

The mixture should be used only for the purpose defined in 1.2. Specific end uses are out of the supplier control, the user is responsible to fit the information from this safety data sheet to local directives and regulations. Safety data sheet describes the product from the point of safety. This information is not the technical information about the product.

Instructions for training and other measures:

Provide adequate information, instruction and training for operators.

Sources of information: Supplier's data and toxicological databases.

Revision changes: Editing according to European legal regulation.

Declaration:

This safety data sheet contains information believed to be correct. It should be used only as a guide. It does not represent any guarantee of the properties of the product. Novato Ltd. and its affiliates shall not be liable for any damage resulting from handling or from contact with the above product. User is responsible for handling according to existing laws and regulations.

This safety data sheet meets the requirements the actual standards OSHA Hazard Communication Standard (HCS) and European legal regulations. The mixture is classified according to the criteria given in the Annex I of the Regulation (EC) No. 1272/2008.