

SECTION1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product code : DEODORANTE TESSUTI DEOTEK
Trades code : HOU-043

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

Deodorant for clothes
Private households (= general public = consumers)[SU21], Public domain (administration, education, entertainment, services, craftsmen)[SU22]
Other products (use ConsExpo subcategories or UCN codes)

Uses advised against
Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

Delta PB srl - Via Messina 103 -20831 - Seregno (MB) Tel. + 39 0362/330202 Fax +39 0362/320470

Email: deltaline@deltapb.it - Sito internet: www.deltapb.it

1.4. Emergency telephone number

Centro Antiveleni Ospedale Niguarda (MI) - 0266101029 24 ore su 24

SECTION2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Directive 1999/45/EEC:

Classification:
F+; R12

Nature of special risks attributed:
R12 - Extremely flammable.

The product ignites easily even at temperatures below 10 °C.
The repeated inhalation of vapors can cause drowsiness and giddiness.
Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.
The aerosol containers overheated burst and can be ejected with violence from a distance and can take place a dangerous mechanism for the fire.

2.2. Label elements

Labeling according to Directive (EC) No 1999/45:

Provided symbols:
F+ - Extremely flammable

Attributed risk:
R12 - Extremely flammable.

Precautionary statements:
S9 - Keep container in a well-ventilated place.
S16 - Keep away from sources of ignition — No smoking.



DEODORANTE TESSUTI DEOTEK

Issued on 02/02/2011 - Rel. # 1 on 02/02/2011

2 / 11

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

- S23 - Do not breathe spray
 S29/56 - Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
 S33 - Take precautionary measures against static discharges.
 S46 - If swallowed, seek medical advice immediately and show this container or label.
 S51 - Use only in well-ventilated areas.

WARNINGS :

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.
 Do not pierce or burn, even after usage. Do not spray on a naked flame or incandescent material.
 Keep away from any fuel source - No smoking. Keep out of reach of children.

2.3. Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

No information on other hazards

SECTION3. Composition/information on ingredients**3.1 Substances**

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of risk phrases and hazard statements
 Hydrocarbons, C3-4 contains less than 0,1 % w/w 1,3-butadiene (EINECS No 203-450-8)

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
Hydrocarbons, C3-4	> 50 <= 100%	F+; R12 Flam. Gas 1, H220; Press. Gas, H280	649-199-00-1	68476-40-4	270-681-9	01-211948657-22
ethyl alcohol	> 1 <= 5%	F; R11 Flam. Liq. 2, H225	603-002-00-5	64-17-5	200-578-6	01-2119457610-43
propan-2-ol	> 1 <= 5%	F; R11 Xi; R36 R67 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	603-117-00-0	67-63-0	200-661-7	01-2119457558-25

SECTION4. First aid measures**4.1. Description of first aid measures****Inhalation:**

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):.

Wash thoroughly with soap and running water.

Direct contact with eyes (of the pure product):.

Wash immediately and thoroughly with running water for at least 10 minutes.

Ingestion:

Not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine

4.2. Most important symptoms and effects, both acute and delayed

For symptoms and effects due to substances refer to paragraph 11.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5. Firefighting measures**5.1. Extinguishing media**

Advised extinguishing agents:

Water spray, CO₂, foam, dry chemical, depending on the materials involved in the fire.
CO₂ or dry powder extinguisher

Extinguishing means to avoid:

Direct jets of water

5.2. Special hazards arising from the substance or mixture

The aerosol containers overheated burst and can be ejected with violence from a distance and can take place a dangerous mechanism for the fire.

Manufactured under pressure in sealed metal container (test pressure 15 bar max). Cool containers with water spray trying to remove them from the fire. The aerosol containers can be overheated and burst violently ejected from a distance (protect the head using a safety helmet).

5.3. Advice for firefighters

Use protection for the breathing apparatus
Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

SECTION 6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Leave the surrounding area recalling that any overheating could project the cylinder at a considerable distance.

Wear gloves and protective clothing.

6.1.2 For emergency responders:

Given the tightness of aerosol, it is unlikely that the spillage may occur.

However if some container is damaged likely to cause a loss, insulate the tank in question by bringing it to open air or covering it with inert material and fuel (eg sand, earth, vermiculite) and having the care to avoid any point of ignition that might pose a serious risk of fire.

Wear suitable gloves (PVC, butyl rubber, neoprene or similar) and protective clothing.

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spill

Inform the competent authorities.

Discharge the remains in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 For containment:

Recover the product for reuse, if possible, or the removal.

6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors. See also paragraph 8 below.

At work do not eat or drink.

Do not smoke at work

Vapors are heavier than air and may spread close to the ground and form explosive mixtures with air. Prevent formation of flammable or explosive concentrations in the air.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.

Do not pierce or burn, even after the use. Do not spray on flame or incandescent objects. Use in adequately ventilated areas.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers.

Keep containers upright and safe by avoiding the possibility of falls or collisions.

Pressurized container. Store in a ventilated place, in original packaging away from heat and sunlight.

Always store in well ventilated areas.

Keep away from open flames, sparks and heat sources. Avoid direct sunlight exposure.

Keep away from flames and spark. Avoid static discharges.

7.3. Specific end use(s)

Private households (= general public = consumers):

- Keep away from heat sources, sparks, open flames
- Do not use on hot surfaces or surfaces exposed to direct sunlight
- Do not breathe spray/vapours
- Avoid contact with eyes, skin, clothing
- Do not eat, drink or smoke when using
- Do not use in confined and/or limited spaces
- Accumulations of flammable gas in the air may occur in case of an excessive use
- Use at a distance of 20 cm from the surface to be treated to prevent dispersion in the air
- Spray only briefly and take care for a good ventilation after use

Public domain (administration, education, entertainment, services, craftsmen):

- Keep away from heat sources, sparks, open flames
- Do not use on hot surfaces or surfaces exposed to direct sunlight
- Do not breathe spray/vapours
- Avoid contact with eyes, skin, clothing
- Do not eat, drink or smoke when using
- Do not use in confined and/or limited spaces
- Accumulations of flammable gas in the air may occur in case of an excessive use
- Use at a distance of 20 cm from the surface to be treated to prevent dispersion in the air

- Spray only briefly and take care for a good ventilation after use

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Related to contained substances:

Hydrocarbons, C3-4

TLV-TWA: 1000 ppm (ACGIH 2010)

MAK: 1000 ppm 2400 mg/m³

Peak limitation category: II(4)

Pregnancy risk group: D (DFG 2008)

ethyl alcohol

TLV-TWA: 1000 ppm - 1880 mg/m³ (A4)

Not classifiable as a human carcinogen (ACGIH 2004)

MAK: 500 ppm - 960 mg/m³

Peak limitation category: II(2)

Carcinogen category: 5

Pregnancy risk group: C

Germ cell mutagen group: 5 (DFG 2004)

propan-2-ol

TLV-TWA: 200 ppm

TLV-STEL: 400 ppm

A4 (not classifiable as a human carcinogen) (ACGIH 2004)

MAK: 200 ppm, 500 mg/m³

Peak limitation category: II(2)

Pregnancy risk group: C (DFG 2004)

8.2. Exposure controls



Appropriate engineering controls:

Private households (= general public = consumers):

Work in a well ventilated place or equipped with ventilation devices. Do not use on hot surfaces or surfaces exposed to sunlight in order to avoid rapid evaporation of the product. Use personal protective equipment (see below).

Public domain (administration, education, entertainment, services, craftsmen):

The use of appropriate technical measures should always take priority over personal protective equipment. Ensure good ventilation in the workplace through effective local aspiration. If these steps are not enough to maintain the concentration of the product below the exposure limit values in the workplace, wear appropriate respiratory protection. Provide a system for eye wash. Before using the product refer to the label for hazard details. During the selection of personal protective equipment, seek appropriate advice from the supplier. Personal protective equipment must comply with regulations in force.

Individual protection measures:

(a) Eye / face protection
Wear safety goggles to EN-166

(b) Skin protection

(i) Hand protection
Not needed for normal use.

DEODORANTE TESSUTI DEOTEK

Issued on 02/02/2011 - Rel. # 1 on 02/02/2011

6 / 11

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

(ii) Other

Avoid direct contact with the skin
 Better is to use cotton antistatic clothing

(c) Respiratory protection

Work in a sufficiently ventilated to avoid inhaling the product.

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Use according to good working practices to avoid pollution into the environment.

SECTION 9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical and chemical properties	Value	Determination method
Appearance	colorless liquid under pressure	
Odour	characteristic, essence	
Odour threshold	not determined	
pH	irrelevant	
Melting point/freezing point	< -100 °C (liquid gas)	
Initial boiling point and boiling range	> -42 °C (liquid gas)	
Flash point	< -80 °C (liquid gas)	
Evaporation rate	not determined	
Flammability (solid, gas)	irrelevant	
Upper/lower flammability or explosive limits	LEL 1,8% (vol); UEL 9,5% (vol)	
Vapour pressure	3,2 bar	
Vapour density	> 2 (liquid gas)	
Relative density	0,65 kg/l	
Solubility	complete in common organic solvents	
Water solubility	not determined	
Partition coefficient: n-octanol/water	not determined	
Auto-ignition temperature	> 400 °C (liquid gas)	
Decomposition temperature	not determined	
Viscosity	not determined	
Explosive properties	not determined	
Oxidising properties	not determined	
Container volume	520 ml	
Product volume	400 ml	
Pressure to 20 °C	3,2 bar	
Deformation pressure	16,5 bar	
Burst pressure of the container	18 bar	
Flash point of liquid phase	< 21 °C	
Propellent inflammability	< 0 °C	

DEODORANTE TESSUTI DEOTEK

Issued on 02/02/2011 - Rel. # 1 on 02/02/2011

7 / 11

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

9.2. Other information

No data available.

SECTION 10. Stability and reactivity**10.1. Reactivity**

Related to contained substances:

ethyl alcohol

Reacts slowly with calcium hypochlorite, silver oxide and ammonia, causing fire and explosion hazard. Reacts violently with strong oxidants such as nitric acid, silver nitrate, mercuric nitrate or magnesium perchlorate, causing fire and explosion hazard.

propan-2-ol

Reacts with strong oxidants. Attacks some plastic, rubber.

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

Avoid static discharges.

The aerosol product is stable for a period exceeding 36 months and in normal storage conditions can not take place dangerous reactions as the container is almost hermetically sealed.

Avoid contact with combustible materials. The product could catch fire.

heat, open flames, sparks or hot surfaces.

To avoid that the metal container can deteriorate, keep away from acidic or basic products. Attention to the heat as temperatures exceeding 50 °C has increased pressure inside the container that gets to deformation of the cylinder until the outbreak.

10.5. Incompatible materials

It can generate inflammable gases to contact with elementary metals, nitrides, strong reducing agents.

It can generate toxic gases to contact with oxidants mineral acids, organic peroxides, organic water peroxides.

It can ignite in contact with oxidants mineral acids, organic nitrides, peroxides and water peroxides, strong oxidants agents.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information**11.1. Information on toxicological effects**

- (a) acute toxicity: not applicable
- (b) irritation: not applicable
- (c) corrosivity: not applicable
- (d) sensitisation: not applicable
- (e) repeated dose toxicity: not applicable
- (f) carcinogenicity: not applicable
- (g) mutagenicity: not applicable
- (h) toxicity for reproduction: not applicable

DEODORANTE TESSUTI DEOTEK

Issued on 02/02/2011 - Rel. # 1 on 02/02/2011

8 / 11

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

Related to contained substances:

Hydrocarbons, C3-4

ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation.

INHALATION RISK: On loss of containment this liquid evaporates very quickly displacing the air and causing a serious risk of suffocation when in confined areas.

EFFECTS OF SHORT-TERM EXPOSURE: Rapid evaporation of the liquid may cause frostbite. The substance may cause effects on the central nervous system.

ACUTE HAZARDS/SYMPTOMS

INHALATION Drowsiness. Unconsciousness.

SKIN ON CONTACT WITH LIQUID: FROSTBITE.

EYES ON CONTACT WITH LIQUID: FROSTBITE.

N O T E S High concentrations in the air cause a deficiency of oxygen with the risk of unconsciousness or death.

ethyl alcohol

ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation of its vapour and by ingestion.

INHALATION RISK: A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C.

EFFECTS OF SHORT-TERM EXPOSURE: The substance irritates the eyes. Inhalation of high concentration of vapour may cause irritation of the eyes and respiratory tract. The substance may cause effects on the central nervous system.

EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: The liquid defats the skin. The substance may have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of concentration. See Notes.

ACUTE HAZARDS/SYMPTOMS

INHALATION Cough. Headache. Fatigue. Drowsiness.

SKIN Dry skin.

EYES Redness. Pain. Burning.

INGESTION Burning sensation. Headache. Confusion. Dizziness. Unconsciousness.

N O T E S Ethanol consumption during pregnancy may adversely affect the unborn child. Chronic ingestion of ethanol may cause liver cirrhosis.

LD50 (rat) Oral (mg/kg body weight) = 7060

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2100

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 39

propan-2-ol

ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation of its vapour.

INHALATION RISK: A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C; on spraying or dispersing, however, much faster.

EFFECTS OF SHORT-TERM EXPOSURE: The substance is irritating to the eyes and the respiratory tract. The substance may cause effects on the central nervous system, resulting in depression. Exposure far above the OEL may result in unconsciousness.

EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: The liquid defats the skin.

ACUTE HAZARDS/SYMPTOMS

INHALATION Cough. Dizziness. Drowsiness. Headache. Sore throat. (See Ingestion).

SKIN Dry skin.

EYES Redness.

INGESTION Abdominal pain. Laboured breathing. Nausea. Unconsciousness. Vomiting. (Further see Inhalation).

N O T E S Use of alcoholic beverages enhances the harmful effect.

LD50 (rat) Oral (mg/kg body weight) = 2100

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2100

SECTION 12. Ecological information

12.1. Toxicity

Related to contained substances:

Hydrocarbons, C3-4

Toxicity to daphnia and other aquatic invertebrates

DEODORANTE TESSUTI DEOTEK

Issued on 02/02/2011 - Rel. # 1 on 02/02/2011

9 / 11

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

- LC50 Daphnia magna, 48h = 14,22 mg/l (butane)

ethyl alcohol

Toxicity to fish

- LC50 Leuciscus idus, 48h: 8.140 mg/l

Toxicity to daphnia and other aquatic invertebrates

- EC50 Daphnia magna, 24h: 9,3 - 14,2 g/l

Toxicity to algae

- EC50 Chlorella pyrenoidosa, 24h > 100 mg/l (literature value)

C(E)L50 (mg/l) = 8140

Use according to good working practices to avoid pollution into the environment.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

Related to contained substances:

Hydrocarbons, C3-4

1.09 to 2.80 log Pow (liquefied petroleum gas)

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

12.6. Other adverse effects

No adverse effects

SECTION13. Disposal considerations

13.1. Waste treatment methods

The waste must be disposed of in compliance with the regulations in force delivering empty containers for final disposal and equipped to safely handle pressurized containers containing flammable liquids and gas waste. The empty container heated to temperatures exceeding 70 °C can burst.

Recover if possible. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to local and National rules in force

SECTION14. Transport information

14.1. UN number

1950

ADR exemption because compliance with the following characteristics:

Combination packagings: per inner packaging 1 L per package 30 Kg

Inner packagings placed in shrink-wrapped or stretch-wrapped trays: per inner packaging 1 L per package 20 Kg

14.2. UN proper shipping name

AEROSOL flammable

14.3. Transport hazard class(es)

Class : 2
Label : 2.1
Tunnel restriction code : D
Limited quantities : 1 L
EmS : F-D, S-U

14.4. Packing group

--

14.5. Environmental hazards

Product is not environmentally hazardous
Marine polluting agent : Not

14.6. Special precautions for user

The transport must be carried out by authorized vehicles for the transport of dangerous goods in accordance with the requirements of the applicable Edition of the agreement A.D.R. and national provisions.
The transport must be carried out in the original packaging and in packages that are made from materials resistant to content and not likely to generate with this dangerous reactions. The process of loading and unloading of dangerous goods have received adequate training on the risks presented by prepared and on possible procedures to be taken in the event of emergency situations

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

It is not intended to carry bulk

SECTION15. Regulatory information

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

Directive 96/82/EC (Seveso), annex I, part 2: category 8

Control of Substances Hazardous to Health (COSHH), Regulations 2002

Regulation 2006/1907/EC (REACH), Regulation 2008/1272/EC (CLP), Regulation 2009/790/EC.

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION16. Other information

16.1. Other information

Description of the sentences of risk set out in paragraph 3

- R11 = Highly flammable.
- R12 = Extremely flammable.
- R36 = Irritating to eyes.
- R67 = Vapours may cause drowsiness and dizziness.

Description of the hazard statements exposed to point 3

- H220 = Extremely flammable gas.
 - H280 = Contains gas under pressure; may explode if heated.
 - H225 = Highly flammable liquid and vapour.
-

Issued on 02/02/2011 - Rel. # 1 on 02/02/2011

11 / 11

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

H319 = Causes serious eye irritation.

H336 = May cause drowsiness or dizziness.

Classification based on data of all mixture components

Main normative references:

Directive 67/548/EEC (29th adaptation)

Directive 1999/45/EC

Directive 2001/60/EC

Regulation 1272/2008/EC

Regulation 2010/453/EC

*** This tab annuls and replaces any previous edition.
