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

1.1	Product identifier	
	Product name:	PREDATOR3D SPRAY
	Registration number:	not required, the product is a mixture, not a compound
	Other means of identification:	not set
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Identified uses:	repellent mixture against mosquitos and ticks
	Uses advised against:	not set
1.3	Details of the supplier of the safety data sheet	
	Distributor:	Leroy Cosmetics s.r.o. Nejdecká 600 691 44 Lednice Czech Republic tel.: +420 519341880 / +420 519341881
	Competent person responsible for the Safety Data Sheet: PharmDr. Vladimír Végh, PHARMIS, info@pharmis.sk	
1.4	Emergency telephone number	
	Toxicology Information Centre, Na Bojišti 1, Praha; 24-h non-stop: +420-224919293 / +420-224915402. Information only on health risks: acute intoxications of people / animals.	


SECTION 2: HAZARDS IDENTIFICATION

General classification of the mixture: the mixture is classified as hazardous in compliance with Regulation (EC) No 1272/2008.

	Important health effects:	May cause serious eye irritation. Prolonged or repeated contact with unprotected skin can cause removal of natural fat from the skin resulting and mild irritation. Swallowing of larger amount can lead to stomachache, vomiting, diarrhea or other gastrointestinal problems (not expected for aerosol packages). Inhalation of vapours and aerosols in high concentration can cause airways irritation, head-ache, sleepiness, dizziness and even narcotic effects.	
	Important environmental effects:	The mixture is classified as hazardous for the environment. Very toxic to aquatic life with long lasting effects.	
2.1	Classification of the substance or mixture		
	Classification in accordance with 1272/2008/EC:	Aerosol 1 H222 H229	Aerosol, category 1 Extremely flammable aerosol. Pressurized container: May burst if heated.
		Eye Irrit. 2 H319	Serious eye damage/eye irritation; category 2 Causes serious eye damage.
		Aquatic Chronic 1 H410	Hazardous to the aquatic environment, category 1 Very toxic to aquatic life with long lasting effects.
2.2	Label elements		
	Contains:	propan-2-ol; propan-butan-isobutan	

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Hazard pictograms:				
Signal word:	DANGER			
Hazard statements:	H222	Extremely flammable aerosol.		
	H229	Pressurized container: May burst if heated.		
	H319	Causes serious eye damage.		
	H410	Very toxic to aquatic life with long lasting effects.		
Supplemental hazard information:	not required			
Supplemental label elements for certain mixtures:	not required			
Precautionary statements:	P102	Keep out of reach of children.		
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
	P211	Do not spray on an open flame or other ignition source.		
	P251	Do not pierce or burn, even after use.		
	P261	Avoid breathing spray.		
	P271	Use only outdoors or in a well-ventilated area.		
	P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
	P410+412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.		
Other required labeling:	not required			

2.3 Other hazards
 Results of PBT and vPvB assessment: The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII; the substances in the mixture are not included in the Candidate List of SVHC.
 Pressurized container: May burst if heated. Extremely flammable aerosol. Vapours / propellant gases are highly flammable and heavier than air. Vapours / propellant gases can travel across the ground and reach remote ignition sources, causing a flashback fire danger.
 Do not spray in eyes or on injured / irritated skin.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of solvents, repellents and auxiliary compounds in pressurized aerosol packaging.

3.1 Substances
does not apply

3.2 Mixtures
Substances presenting a health or environmental hazard within the meaning of the Regulation (EC) No. 1272/2008, assigned a Community/national workplace exposure limit, classified as PBT/vPvB or included in the Candidate List:

Substance <i>REACH Registration number</i>	Content (% w/w)	EC Number CAS Number Index Number	Classification 1272/2008/EC*	Exposure limits
propan-2-ol <i>REACH 01-2119457558-25-xxxx</i>	< 60	200-661-7 67-63-0 603-117-00-0	Flam. Liq. 2 Eye Irrit.2 STOT SE 3	H225 H319 H336 Exp. limit (national) see 8.1



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isobutan <i>REACH 01-2119485395-27-xxxx</i>	30	200-857-2 75-28-5 601-004-01-8	Flam. Gas 1 Press. Gas	H220 H280	Exp. limit (national) see 8.1
butan (containing < 0,1 % buta-1,3-diene) <i>REACH 01-2119474691-32-xxxx</i>	< 15	203-448-7 106-97-8 601-004-00-0	Flam. Gas 1 Press. Gas	H220 H280	Exp. limit (national) see 8.1
propan <i>REACH 01-2119486944-21-xxxx</i>	< 15	200-827-9 74-98-6 601-003-00-5	Flam. Gas 1 Press. Gas	H220 H280	Exp. limit (national) see 8.1
piperonylbutoxide 2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether <i>REACH dosudnevedeno</i>	1	200-076-7 51-03-6 -	Acute Tox. 3 Aquatic Acute 1 Aquatic Chronic 1	H331 H400 H410	-
transfluthrin (ISO) <i>REACH 01-2119457610-43-xxxx</i>	0,2	607-223-00-8 118712-89-3 405-060-5	Skin Irrit. 2 Aquatic Chronic 1	H315 H410	
3,7-dimethylocta-(e)-2,6-dien-1-ol (<i>geraniol</i>) <i>REACH dosudnevedeno</i>	< 0,1	203-377-1 106-24-1 -	Skin Irrit. 2 Skin Sens. 1 Eye Dam. 1	H315 H317 H318	-

* For full wording of used classification abbreviations and Hazard Statements (H-phrases) see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Observe all user considerations and safety measures stated on the packaging. No adverse health effects are expected under normal conditions of use. In case of any unexpected accident, health problem or uncertainty seek medical attention and provide information from this Safety Data Sheet. Unconscious persons place in the stabilized position and observe the breathing. Never give any fluids to unconscious persons.

Inhalation: As of the physical status inhalation of aerosols / vapours is not expected. In case of rare problem upon inhalation of vapours / aerosols remove affected person from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation and call immediately medical emergency.

Skin contact: Immediately remove all soiled or stained clothing. Wash the affected area immediately and repeatedly with soap and water. Use appropriate regenerating cream. Seek medical advice if the skin irritation persists.

Eye contact: Keep eyelids open and rinse immediately and repeatedly with copious amount of water for at least 10 - 15 minutes. Remove contact lenses, if present and easy to do. Seek medical advice if the eye irritation persists (preferably an ophthalmologist).

Ingestion: As of aerosol packaging, ingestion is not expected. In rare cases of intended use rinse mouth with water and allow affected person to drink some water or milk (however, only if the person is conscious). **Do not induce vomiting!** In case of spontaneous vomiting avoid aspiration of the vomits. In case of persistent problems get medical attention and show this Safety Data Sheet or product label!

4.2 Most important symptoms and effects, both acute and delayed

May cause serious eye irritation. Prolonged or repeated contact with unprotected skin can cause removal of natural fat from the skin resulting and mild irritation. Swallowing of larger amount can lead to stomachache, vomiting, diarrhea or other gastrointestinal problems (not expected for aerosol packages). Inhalation of vapours and aerosols in high concentration can cause airways irritation, head-ache, sleepiness, dizziness and even narcotic effects.

4.3 Indication of any immediate medical attention and special treatment needed

No specific therapy known. Use supporting and symptomatic treatment.



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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: water spray, alcohol resistant foam, dry-powder, carbon dioxide or other extinguishing gases

Unsuitable extinguishing media: direct water stream, may spread the fire

5.2 Special hazards arising from the substance or mixture

Pressurized container: May burst if heated. Extremely flammable aerosol. Vapours / propellant gases are highly flammable and heavier than air. Vapours / propellant gases can travel across the ground and reach remote ignition sources, causing a flashback fire danger. Incomplete combustion and thermolysis may produce toxic, irritating and flammable decomposition products (such as carbon monoxide, carbon dioxide, soot, aldehydes and other products of organic compounds decomposition). Do not inhale smokes.

5.3 Advice for fire-fighters

Fire-fighters should always use standard protective equipment, helmets and in enclosed spaces, self-contained breathing apparatus (SCBA) - risk of irritating, toxic or flammable decomposition products. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Use water spray to cool fire exposed surfaces and to protect personnel. If possible, try to move the containers from the fire vicinity. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Observe all user considerations and safety measures. Avoid contact with skin, eyes and mucous membranes. All unprotected persons should be restraint. See Section 8 for advice on the minimum requirements for personal protective equipment. Ensure adequate ventilation in closed areas. Do not inhale vapors / aerosols - use appropriate mask with filter against organic gases. Remove all sources of ignition (also all sources of static electric discharges). Use only spark-proof equipment. Do not manipulate with fire, objects with high temperature and flammable materials. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

6.2 Environmental precautions

Stop leak if you can do so without risk. Avoid entering soil, surface- and ground-waters, drains, cellars or other closed rooms. For aquatic environments: use appropriate floating barrages and adsorbents. In case of serious leakage inform appropriate authorities responsible for environmental protection.

6.3 Methods and materials for containment and cleaning up

Collect mechanically and soak up the rests with inert absorbent material (sand, diatomite, kaolin, vapex...); put in appropriately labeled containers with a lid. Ensure thorough ventilation of propellant gases and vapors. Remove all sources of ignition (also all sources of static electric discharges). Use only spark-proof equipment. Do not manipulate with fire, objects with high temperature and flammable materials. Dispose according to valid legislation; send to wastes treatment facility. See Section 13 for appropriate procedures. Wash all areas with large amount of water and appropriate detergent. Contaminated water should not enter drains, surface- and ground-waters, dispose as dangerous waste.

6.4 Reference to other sections

Adhere to instructions in the section 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Observe all user considerations, safety measures and exposure limits. Avoid contact with skin, eyes and mucous membranes. See Section 8 for advice on the minimum requirements for personal protective equipment. Manipulate carefully to avoid accidental leak. Do not eat, drink or smoke when manipulating with the product. Use only with adequate ventilation. Remove all sources of ignition, do not manipulate in proximity of fire, objects with high temperature and flammable materials.

Do not spray on an open flame or other ignition source. Pressurized container: protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F. Do not pierce or burn, even after use. Empty containers may contain flammable or explosive vapours - do not cut / drill.



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7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed original and appropriately labeled packages. Store in dry, banded, spaces protected from weather conditions. Ensure appropriate ventilation at the floor level. Keep away from direct sunlight and, heat sources and ignition sources. Recommended storage temperature 0 - 25°C. Do not smoke in storage facility. Keep away from food, beverages and forage. Keep out of the reach of children. Keep away from strong acid/bases and oxidative compounds.

Containers under constant pressure! Can explode when heated. Do not expose to temperatures exceeding 50 °C/ 122°F.

7.3 Specific end uses

not specified

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits (Czech Republic, Government Regulation No. 361/2007 Coll.):

CAS	Substance name	NPEL
67-63-0	propan-2-ol	PEL: 500 mg.m ⁻³ NPEL-P: 1000 mg.m ⁻³
74-98-6 106-97-8 75-28-5	propane/butane/isobutane as: propane-butane (LPG)	PEL: 1800 mg.m ⁻³ NPEL-P: 4000 mg.m ⁻³

Indicative biological limits (Czech Republic, Government Regulation No. 432/2003 Sb., Annex 2): not set

Indicative occupational exposure limit ES (Directives 2000/39/EC, 2006/15/EC and 2009/161/EC): not set

CAS	Substance name	OEL
-	-	-

Other recommended values: not set

CAS	Substance name	OEL - equivalents
-	-	-

DNEL: not set for the mixture. Compounds:

propan-2-ol

workers

inhalation, long-term systemic effects: 500 mg/m³
dermal, long-term systemic effects:: 888 mg/kg/den

consumers / general public

oral, long-term systemic effects: 26 mg/kg/den
inhalation, long-term systemic effects: 89 mg/m³
dermal, long-term systemic effects: 319 mg/kg/den

PNEC: not set for the mixture. Compounds:

propan-2-ol

fresh water: 140,9 mg/l
marine water: 140,9 mg/l
sediment (fresh water): 552 mg/kg
sediment (marine water): 552 mg/kg
soil: 28 mg/kg



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8.2 Exposure controls

Appropriate engineering controls:

Avoid contact with skin, eyes and mucous membranes. Ensure adequate ventilation. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Individual protection measures, such as personal protective equipment:

a) Eye / face protection

Not needed under normal conditions of use. Avoid contact with eyes. If specific usage involves possibility of eye contact (filling, emergency procedures), use of safety glasses with side shields (EN 166) is recommended.

b) Skin protection:

Not needed under normal conditions of use. For long-term contact / manipulation chemical-resistant protective gloves are recommended. If contact with forearms is likely, wear gauntlet-style gloves. CEN standards EN 420 and EN 374 provide general requirements and lists of glove types. Recommended material: fluorinated rubber, nitril-, butyl-rubber, PVC, latex. Breakthrough time should be at least the expected contact time. Because of the lack of specific tests, the breakthrough time should be twice the expected contact time. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Do not wear rings, watches or other items that should retain the mixture on the skin.

Note: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier. Inspect and immediately replace worn or damaged gloves.

c) Respiratory protection:

Not usually required under appropriate ventilation or exhaustion at the workplace. Avoid vapours / aerosols inhalation. If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: half-face filter respirator, type A/P2 filter (European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 (STN EN 14387+A1) provide filter recommendations).

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapours warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

d) Thermal hazards:

Containers under constant pressure! Can explode when heated.

Environmental exposure controls:

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions. All storage and manipulation areas have to be equipped for the sanitation of possible leakage. See information in sections 6 and 12.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Properties	value	method / condition
Appearance:	liquid / aerosol	20°C
Colour:	colourless - clear	-
Odour:	characteristic - perfume	-
Odour threshold:	information not available	-
pH:	information not available	-



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Melting point/freezing point:	information not available	-
Initial boiling point and boiling range:	information not available	-
Flash point:	information not available	-
Evaporation rate:	information not available	-
Flammability (solid, gas)	extremely flammable aerosol/gases	-
Upper/lower flammability or explosive limits:	information not available	-
Vapour pressure:	information not available	-
Vapour density:	> 1 (relative, air = 1)	-
Relative density:	0,7 g/cm ³	20°C
Solubility/ies:	soluble in water	water, 20°C
Partition coefficient: n-octanol/water:	information not available	-
Auto-ignition temperature:	information not available	-
Decomposition temperature:	information not available	-
Viscosity:	information not available	-
Explosive properties:	the mixture itself is not explosive, however vapours/aerosols/propellant gases may form explosive mixtures with air	-
Oxidising properties:	no oxidative properties	-
9.2 Other information		
-	-	-

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Not reactive under normal conditions of storage and use. Extremely flammable aerosol. Vapours / propellant gases are highly flammable and heavier than air. Vapours / propellant gases can travel across the ground and reach remote ignition sources, causing a flashback fire danger.
10.2 Chemical stability	Mixture is chemically stable under normal conditions of storage and use.
10.3 Possibility of hazardous reactions	Not known under normal conditions of storage and use. No hazardous polymerization is expected.
10.4 Conditions to avoid	Stable under normal conditions. Keep away from direct sunlight, heat sources and ignition sources. Do not smoke. Take precautionary measures against static discharges. Use proper bonding and/or earthing procedures when manipulating larger amounts. Pressurized container: protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F.
10.5 Incompatible materials	Strong oxidative compounds, strong acids / bases.
10.6 Hazardous decomposition products	Material does not decompose at ambient temperatures. Incomplete combustion and thermolysis may produce toxic, irritating and flammable decomposition products (such as carbon monoxide, carbon dioxide, soot, aldehydes and other products of organic compounds decomposition).



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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

a) *Acute toxicity*

Based on available data, the classification criteria are not met. No toxicology data for the complete mixture. The classification is based on compounds properties. No adverse health effects are expected under normal conditions of use.

Compounds:

propan-2-ol

LD50, oral, rat: >2000 mg/kg

LD50, dermal, rabbit: > 2000 mg/kg

butane

LC50, inhalative, rat: 658 ppm (4 h)

b) *Skin corrosion/irritation*

Based on available data, the classification criteria are not met. Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting and mild irritation. However, these effects are not reasons for classification.

c) *Serious eye damage/irritation*

Causes serious eye damage.

d) *Respiratory or skin sensitisation*

Based on available data, the classification criteria are not met. Compounds have no sensitizing potential.

e) *Germ cell mutagenicity*

Based on available data, the classification criteria are not met. Compounds have no potential for mutagenicity.

f) *Carcinogenicity*

Based on available data, the classification criteria are not met. Compounds have no potential for carcinogenicity.

g) *Reproductive toxicity*

Based on available data, the classification criteria are not met. Compounds have no potential for reproductive toxicity.

h) *STOT-single exposure*

Based on available data, the classification criteria are not met. Inhalation of vapours and aerosols in high concentration can cause airways irritation, head-ache, sleepiness, dizziness and even narcotic effects. However, these effects are not reasons for classification.

i) *STOT-repeated exposure*

Based on available data, the classification criteria are not met. Based on composition and applicable amounts, not expected to cause specific damage from prolonged or repeated exposure upon normal conditions of use.

j) *Aspiration hazard*

Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

The mixture is classified as hazardous for the environment. Very toxic to aquatic life with long lasting effects.

12.1 Toxicity

No experimental data for the mixture. Based on the composition and calculation method of classification the mixture is classified as very toxic to aquatic life with long lasting effects.

Compounds:

propan-2-ol

LD50, fishes, 48 h: > 100 mg/l (*Leuciscusidusmelanotus*)

EC50, crustaceans, 48 h: > 100 mg/l (*Daphnia sp.*)

EC50, algae, 72 h: > 100 mg/l

12.2 Persistence and degradability

No data for the mixture. Propellants readily evaporate and mix with atmosphere. Fast oxidation and photodegradation is expected. Other components are readily biodegradable.



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12.3 Bioaccumulative potential	No data for the mixture. Components have not known bioaccumulative potential.
12.4 Mobility in soil	No data for the mixture.
12.5 Results of PBT and vPvB assessment	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII; the substances in the mixture are not included in the Candidate List of SVHC
12.6 Other adverse effects	Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	<p>Dispose according to valid legislation; send to approved wastes treatment facility. Dispose in accordance with the valid European and national waste legislation.</p> <p><u>Product disposal</u> Avoid entering soil, drains, surface- and ground-waters. Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Do not dispose as a common household waste. Dispose in a certified hazardous waste facility. According to the European Waste Catalogue waste codes are not specific for product, but for its use. Therefore, appropriate waste code should assign final user according to his specific use.</p> <p><u>Proposed waste classification, based on common use:</u></p> <p><i>Complete product</i> 16 WASTES NOT OTHERWISE SPECIFIED IN THE LIST 16 05 gases in pressure containers and discarded chemicals 16 05 04 gases in pressure containers (including halons) containing dangerous substances Hazardous waste: yes</p> <p><i>Liquid content only:</i> 14 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (except 07 and 08) 14 06 waste organic solvents, refrigerants and foam/aerosol propellants 14 06 03 waste organic solvents, refrigerants and foam/aerosol propellants: other solvents and solvent mixtures Hazardous waste: yes</p> <p><u>Contaminated packages:</u> Always empty the pressurized container. Do not pierce or burn, even after use. Empty containers may contain flammable or explosive vapours - do not cut / drill. Do not dispose as a common household waste. Dispose in a certified hazardous waste facility. According to the European Waste Catalogue waste codes are not specific for product, but for its use. Therefore, appropriate waste code should assign final user according to his specific use. Emptied packages can be recycled.</p> <p><u>Proposed waste classification, based on common use:</u></p> <p><i>Packages containing rests</i> 15 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED 15 01 packaging (including separately collected municipal packaging waste) 15 01 11 metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers Hazardous waste: yes</p> <p><i>Completely empty packages</i> 15 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED 15 01 packaging (including separately collected municipal packaging waste) 15 01 04 metallic packaging Hazardous waste: no</p>
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SECTION 14: TRANSPORT INFORMATION

The mixture is classified as dangerous for transport according to ADR/RID/IMDG/ICAO/IATA.

14.1 UN Number: UN 1950

14.2 UN proper shipping name

Road transport ADR

Rail transport RID

International maritime transport IMDG

Air transport ICAO/IATA

Aerosols, flammable

Aerosols, flammable

Aerosols, flammable

Aerosols, flammable

14.3 Transport hazard class(es)

Road transport ADR

Rail transport RID

International maritime transport IMDG

Air transport ICAO/IATA

2

2

2

2

Classification code

-

-

-

-

Hazard identification number (Kemler)

-

-

-

-

Labels



Other remarks

Limited quantities:

E0 (1 l) / LQ2

Tunnel restriction code: D

Transport category: 2

Limited quantities:

E0 (1 l) / LQ2

Tunnel restriction code: D

Transport category: 2

EMS: F-D, S-U

-

14.4 Packing group

Road transport ADR

Rail transport RID

International maritime transport IMDG

Air transport ICAO/IATA

-

-

-

-

14.5 Environmental hazards:yes



14.6 Special precautions for user: not required

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: not transported

SECTION 15: REGULATORY INFORMATION

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

Relevant legislation European Union:

- Regulation (EC) No 1907/2006 of the European Parliament and of the , concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)



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- 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
- 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)
- 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
- European Waste Catalogue

Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

propan-2-ol <i>REACH 01-2119457558-25-xxxx</i>	Regulation EC 1907/2006, Annex XVII, Article 3 Regulation EC 1907/2006, Annex XVII, Article 40
isobutan <i>REACH 01-2119485395-27-xxxx</i>	Regulation EC 1907/2006, Annex XVII, Article 40
butan (containing < 0,1 % buta-1,3-diene) <i>REACH 01-2119474691-32-xxxx</i>	Regulation EC 1907/2006, Annex XVII, Article 40
propan <i>REACH 01-2119486944-21-xxxx</i>	Regulation EC 1907/2006, Annex XVII, Article 40
piperonylbutoxide 2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether <i>REACH dosudnevedeno</i>	Regulation EC 1907/2006, Annex XVII, Article 3
transfluthrin (ISO) <i>REACH 01-2119457610-43-xxxx</i>	Regulation EC 1907/2006, Annex XVII, Article 3
3,7-dimethylocta-(e)-2,6-dien-1-ol (geraniol) <i>REACH dosudnevedeno</i>	Regulation EC 1907/2006, Annex XVII, Article 3

15.2 Chemical safety assessment

Chemical safety assessment not carried yet

SECTION 16: OTHER INFORMATION

a) *Changes made to the previous version of the safety data sheet*

Not applicable, first edition - version 1.0

b) *Key or legend to abbreviations and acronyms used in the safety data sheet*

Flam. Liq. 2	Flammable liquid, category 2
Flam. Gas 1	Flammable gas, category 1
Press. Gas	Gases under pressure
Acute Tox. 3	Acute toxicity, category 3
Skin Irrit. 2	Skin Corrosion/Irritation; category 2
Skin Sens. 1	Skin sensitization, category 1
Eye Dam. 1	Serious eye damage/eye irritation; category 1
Eye Irrit. 2	Serious eye damage/eye irritation; category 2
Aquatic Acute 1	Hazardous to the aquatic environment; category 1
Aquatic Chronic 1	Hazardous to the aquatic environment; category 1
Exp. lim.	Exposure limit
NPEL	The highest permissible exposure limit (<i>Slovak Republic</i>)
PEL	Permissible exposure limit (short-term) (<i>Czech Republic</i>)
NPEL-P	The highest permissible exposure limit (long-term) (<i>Czech Republic</i>)



SAFETY DATA SHEET

according Regulation EC No. 1907/2006 (REACH), Regulation EC No. 1272/2008 (CLP) and Commission Regulation EU No. 2015/830

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	OEL ACGIH PBT vPvB VOC DNEL PNEC LD50 LC50 EC50 IC50 ADR RID IMDG ICAO IATA	Occupational exposure limit American Conference of Industrial Hygienists Substances persistent, bioaccumulative and toxic Substances very persistent and very bioaccumulative Volatile organic compound Derived No Effect Level Predicted No Effect Concentration Median lethal Dose Median lethal concentration Half maximal effective concentration Half maximal inhibitory concentration European Agreement concerning the International Carriage of Dangerous Goods by Road International Rule for Transport of Dangerous Substances by Railway International Maritime Dangerous Goods Code International Civil Aviation Organization International Air Transport Association
c)	<i>Key literature references and sources for data</i> Original composition from the manufacturer and Safety data sheets of used compounds.	
d)	<i>Methods of evaluating information used for the purpose of classification</i> The mixture was classified by expert judgment and conventional calculations methods in accordance with the Regulation EC No. 1272/2008 (CLP).	
e)	<i>Full wording of used Hazard Statements (H-phrases)</i> H220 Extremely flammable gas. H225 Very flammable liquid and vapour. H229 Pressurized container: May burst if heated. H280 Contains gas under pressure; may explode if heated. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.	
f)	<i>Advice on any training appropriate for workers</i> Not applicable for consumer. Before handling, storing or using the present substance for the first time, employees must be informed - common occupational safety training. SAFETY DATA SHEET should always be available at hand.	
g)	<i>Other information</i> This Safety Data Sheet is compiled in accordance with the Regulation EC No. 1907/2006 (REACH), Regulation EC No. 1272/2008 (CLP) and Commission Regulation EU No. 2015/830; and contains information on safety use, occupational health protection, and environmental protection. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. This particular information applies on the product as supplied and may not be valid in mixtures with other substances. If used for other purposes as identified in this SDS, the distributor is not liable for any damage. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfill his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned. Compiled: PharmDr. Vladimír Věgh, PHARMIS. www.pharmis.cz	