SAFETY DATA SHEET



Degreaser Spray

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Product name	:	Degreaser Spray
Product code	:	hansa
Color	:	Colorless.

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

Identified uses

Aerosol product-Cleaning agent-Preparation of material for application

1.3 Details of the supplier of the safety data sheet

HANSA-FLEX AG Zum Panrepel 44, D-28307 Bremen Phone: +49 421/48907-0 Fax: +49 421/48907-88 E-Mail: info@hansa-flex.com Internet: www.hansa-flex.com

e-mail address of person : info@hansa-flex.com responsible for this SDS

1.4 Emergency telephone number

Giftinformationszentrum Nord GIZ-Nord +49(0)551-19 240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Aerosol 1, H222, H229 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word	: Danger
Hazard statements	 H222, H229 - Extremely flammable aerosol. Pressurized container: may burst if heated. H315 - Causes skin irritation. H336 - May cause drowsiness or dizziness. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements	

SECTION 2: Hazards identification

Prevention	:	 P280 - Wear protective gloves. 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. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P261 - Avoid breathing dust or mist. P264 - Wash thoroughly after handling. P251 - Do not pierce or burn, even after use.
Response	:	P391 - Collect spillage. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P362 + P364 - Take off contaminated clothing and wash it before reuse.
Storage	:	P405 - Store locked up. P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	P501 - Dispose of waste according to applicable legislation.
Hazardous ingredients	:	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
Supplemental label elements	:	Contains benzyl salicylate and (R)-p-mentha-1,8-diene. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	Aspiration hazard - Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane	REACH #: 01-2119475514-35 EC: 921-024-6	≥50 - ≤75	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	-	[1]
pentane	REACH #: 01-2119459286-30 EC: 203-692-4 CAS: 109-66-0 Index: 601-006-00-1	≥10 - <20	Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5	≤10	Flam. Liq. 2, H225	-	[2]
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	Index: 603-002-00-5				
butane	REACH #: 01-2119474691-32 EC: 203-448-7 CAS: 106-97-8 Index: 601-004-00-0	≤10	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	-	[2]
propane	REACH #: 01-2119486944-21 EC: 200-827-9 CAS: 74-98-6 Index: 601-003-00-5	≤10	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	-	[2]
isobutane	REACH #: 01-2119485395-27 EC: 200-857-2 CAS: 75-28-5 Index: 601-004-00-0	≤3	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	-	[2]
propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	<1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	-	[1] [2]
benzyl salicylate	EC: 204-262-9 CAS: 118-58-1 Index: 607-754-00-5	≤0.3	Skin Sens. 1B, H317	-	[1]
(R)-p-mentha-1,8-diene	REACH #: 01-2119529223-47 EC: 227-813-5 CAS: 5989-27-5 Index: 601-096-00-2	≤0.2	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M [Acute] = 1	[1] [2]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of

equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

SECTION 4: First aid measures

Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Eve contact	may include the following:
Eye contact : Adverse symptoms pain or irritation watering redness	,
Inhalation : Adverse symptoms respiratory tract irrita coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness	may include the following: ation
Skin contact : Adverse symptoms irritation redness	may include the following:
Ingestion : No specific data.	

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	: None known.	

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SECTION 5: Firefighting measures

	_
5.2 Special hazards arising f	om the substance or mixture
Hazards from the substance or mixture	: Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and materials for containment and cleaning up	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold
P3a	150 tonne	500 tonne
E2	200 tonne	500 tonne

7.3 Specific end use(s) Recommendations

: Not available.

Industrial sector specific solutions

: Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredien	it name		Exposure limit va	alues		
pentane		TRGS 900 OEL (Germany, 7/2021).				
		TWA: 3000 mg/m	³ 8 hours.			
		PEAK: 6000 mg/n	n³ 15 minutes.			
		TWA: 1000 ppm 8	3 hours.			
		PEAK: 2000 ppm				
		DFG MAC-values	list (Germany, 10/202	21). [Pentane]		
		TWA: 1000 ppm 8	3 hours.			
		PEAK: 2000 ppm,	4 times per shift, 15	minutes.		
		TWA: 3000 mg/m	³ 8 hours.			
		PEAK: 6000 mg/n	n³, 4 times per shift, 1	5 minutes.		
ethanol		TRGS 900 OEL (G	ermany, 7/2021).			
		TWA: 380 mg/m ³	8 hours.			
		PEAK: 1520 mg/n	1³ 15 minutes.			
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S	ECTION 8: Exposure controls/personal protection			
		TWA: 200 ppm 8 hours. PEAK: 800 ppm 15 minutes. DFG MAC-values list (Germany, 10/2021). TWA: 200 ppm 8 hours. PEAK: 800 ppm, 4 times per shift, 15 minutes. TWA: 380 mg/m ³ 8 hours. PEAK: 1520 mg/m ³ , 4 times per shift, 15 minutes.		
	butane	 TRGS 900 OEL (Germany, 7/2021). TWA: 2400 mg/m³ 8 hours. PEAK: 9600 mg/m³ 15 minutes. TWA: 1000 ppm 8 hours. PEAK: 4000 ppm 15 minutes. DFG MAC-values list (Germany, 10/2021). [Butane] TWA: 1000 ppm 8 hours. PEAK: 4000 ppm, 4 times per shift, 15 minutes. TWA: 2400 mg/m³ 8 hours. PEAK: 9600 mg/m³, 4 times per shift, 15 minutes. 		
	propane	 TRGS 900 OEL (Germany, 7/2021). TWA: 1800 mg/m³ 8 hours. PEAK: 7200 mg/m³ 15 minutes. TWA: 1000 ppm 8 hours. PEAK: 4000 ppm 15 minutes. DFG MAC-values list (Germany, 10/2021). TWA: 1000 ppm 8 hours. PEAK: 4000 ppm, 4 times per shift, 15 minutes. TWA: 1800 mg/m³ 8 hours. PEAK: 7200 mg/m³, 4 times per shift, 15 minutes. 		
	isobutane	 TRGS 900 OEL (Germany, 7/2021). TWA: 2400 mg/m³ 8 hours. PEAK: 9600 mg/m³ 15 minutes. TWA: 1000 ppm 8 hours. PEAK: 4000 ppm 15 minutes. DFG MAC-values list (Germany, 10/2021). [Butane] TWA: 1000 ppm 8 hours. PEAK: 4000 ppm, 4 times per shift, 15 minutes. TWA: 2400 mg/m³ 8 hours. PEAK: 9600 mg/m³, 4 times per shift, 15 minutes. 		
	propan-2-ol	 TRGS 900 OEL (Germany, 7/2021). TWA: 500 mg/m³ 8 hours. PEAK: 1000 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. PEAK: 400 ppm 15 minutes. DFG MAC-values list (Germany, 10/2021). TWA: 200 ppm 8 hours. PEAK: 400 ppm, 4 times per shift, 15 minutes. TWA: 500 mg/m³ 8 hours. PEAK: 1000 mg/m³, 4 times per shift, 15 minutes. 		
	(R)-p-mentha-1,8-diene	 DFG MAC-values list (Germany, 10/2021). Absorbed through skin. Skin sensitizer. TWA: 5 ppm 8 hours. PEAK: 20 ppm, 4 times per shift, 15 minutes. TWA: 28 mg/m³ 8 hours. PEAK: 112 mg/m³, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 7/2021). Absorbed through skin. Skin sensitizer. PEAK: 20 ppm 15 minutes. 		
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SECTION 8: Exposure controls/personal protection

required.

	PEAK: 112 mg/m³ 15 minutes. TWA: 5 ppm 8 hours. TWA: 28 mg/m³ 8 hours.
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Biological exposure indices

Product/ingredient name	Exposure indices
propan-2-ol	DFG BEI-values list (Germany, 7/2022) BEI: 25 mg/l, acetone [in blood]. Sampling time: end of exposure or end of shift. BEI: 25 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 25 mg/l, acetone [in whole blood]. Sampling time: end of exposure or end of shift. BEI: 25 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift.
procedures European Star assessment of values and me atmospheres - of exposure to (Workplace atm for the measure	build be made to monitoring standards, such as the following: Indard EN 689 (Workplace atmospheres - Guidance for the f exposure by inhalation to chemical agents for comparison with limit easurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 mospheres - General requirements for the performance of procedures rement of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
pentane	DNEL	Long term Oral	214 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	214 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	432 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	643 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	3000 mg/ m³	Workers	Systemic
benzyl salicylate	DNEL	Long term Oral	0.79 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.79 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1.37 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	2.21 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	7.8 mg/m³	Workers	Systemic
(R)-p-mentha-1,8-diene	DNEL	Long term Oral	4.76 mg/ kg bw/day	General population	Systemic
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SECTION 8: Exposure controls/personal protection							
	DNEL	Long term Inhalation	8.33 mg/m ³	General population	Systemic		
	DNEL	Long term Inhalation	33.3 mg/m³	Workers	Systemic		
	DNEL	Short term Dermal	0.111 mg/ cm²	General population	Local		
	DNEL	Short term Dermal	0.222 mg/ cm²	Workers	Local		
	DNEL	Long term Dermal	4.8 mg/kg bw/day	General population	Systemic		
	DNEL	Long term Dermal	9.5 mg/kg bw/day	Workers	Systemic		

PNECs

No PNECs available.

8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection meas	ures
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Recommended : 1 - 4 hours (breakthrough time): nitrile rubber 4 - 8 hours (breakthrough time): Viton®/butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

SECTION 8: Exposure controls/personal protection

Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended : organic vapor (Type AX) and particulate filter
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

,		• •
9.1 Information on basic physical	l a	nd chemical properties
<u>Appearance</u>		
Physical state	:	Gas.
Color	:	Colorless.
Odor	:	Characteristic.
Odor threshold	:	Not available.
Melting point/freezing point	:	Not applicable.
Initial boiling point and boiling range	:	Not available.
Flammability	:	Not available.
Upper/lower flammability or explosive limits	:	Lower: 0.8% Upper: 15%
Flash point	:	Closed cup: Not applicable.
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	:	Not available.
рН	:	Not applicable.
Viscosity	:	Not applicable.
Solubility(ies)	:	
Not available.		
Solubility in water	:	5 g/l
Partition coefficient: n-octanol/ water	:	Not applicable.
Vapor pressure	:	57.3 kPa (429.79 mm Hg)
Relative density	:	Not applicable.
Density	:	0.669 g/cm³ [20°C (68°F)]
Vapor density	:	Not available.
Explosive properties	:	Not available.
Oxidizing properties	:	Not available.
Particle characteristics		
Median particle size	:	Not applicable.
0.4DT	_	
SADT	:	Not available. Not available.
SAPT Heat of combustion		
Heat of combustion	•	14.38 kJ/g
Aerosol product		Sprov
Type of aerosol	÷	Spray

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients	
10.2 Chemical stability	: The product is stable.	
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).	
10.5 Incompatible materials	: No specific data.	
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
pentane	LC50 Inhalation Vapor	Rat	364 g/m³	4 hours
benzyl salicylate	LD50 Oral	Rat	2227 mg/kg	-
(R)-p-mentha-1,8-diene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	4400 mg/kg	-
Conclusion/Summary	: Not available.	•	•	•

Acute toxicity estimates

	ATE value
Not available.	

Irritation/Corrosion

			1	-	1
Product/ingredient name	Result	Species	Score	Exposure	Observation
(R)-p-mentha-1,8-diene	Skin - Mild irritant	Rabbit	-	24 hours 10	-
				%	
Conclusion/Summary	: Not available.				
Sensitization					
Conclusion/Summary	: Not available.				
<u>Mutagenicity</u>					
Conclusion/Summary	: Not available.				
Carcinogenicity					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
Conclusion/Summary	: Not available.				
Teratogenicity					
Conclusion/Summary	: Not available.				
Specific target organ toxicit	<u>y (single exposure)</u>				

SECTION 11: Toxicological information Product/ingredient name Category Route of exposure Target organs Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane</td> Category 3 Narcotic effects pentane Category 3 Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name	Result
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n- hexane	ASPIRATION HAZARD - Category 1
pentane	ASPIRATION HAZARD - Category 1
(R)-p-mentha-1,8-diene	ASPIRATION HAZARD - Category 1

Information on the likely : Not available. routes of exposure

Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	:	Causes skin irritation.
Ingestion	:	Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure				
Potential immediate effects	: Not availab	le.		
Potential delayed effects	: Not availab	le.		
Long term exposure				
Potential immediate effects	: Not availab	le.		
Potential delayed effects	: Not availab	le.		
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SECTION 11: Toxicological information

Potential chronic health effects

Not	avai	labl	le.

Conclusion/Summary	: Not available.
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
(R)-p-mentha-1,8-diene	Acute EC50 421 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 688 μg/l Fresh water	Fish - <i>Pimephales promelas</i> - Juvenile (Fledgling, Hatchling, Weanling)	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
pentane	3.45	171	Low
benzyl salicylate	-	1170	High
(R)-p-mentha-1,8-diene	4.38	-	High

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

Date of issue/Date of revision

SECTION 12: Ecological information

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal: The generation of waste should be avoided or minimized wherever possible.
Disposal of this product, solutions and any by-products should at all times comply
with the requirements of environmental protection and waste disposal legislation and
any regional local authority requirements. Dispose of surplus and non-recyclable
products via a licensed waste disposal contractor. Waste should not be disposed of
untreated to the sewer unless fully compliant with the requirements of all authorities
with jurisdiction.

European waste catalogue (EWC)

Waste code	Waste designation
16 05 04*	gases in pressure containers (including halons) containing hazardous substances

Packaging

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

	Type of packaging	European waste catalogue (EWC)
	15 01 04 15 01 02	metallic packaging plastic packaging
Special precautions		: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	UN1950	UN1950	UN1950
14.2 UN proper shipping name	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3 Transport hazard class(es)		2.1	2.1
14.4 Packing group	-	-	-
14.5 Environmental hazards	Yes. Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane, pentane	Yes. Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane, pentane	Yes. The environmentally hazardous substance mark is not required.

Additional information

SECTION 14: Transport information				
ADR/RID	:	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Limited quantity 1 L Special provisions 190, 327, 625, 344 Tunnel code (D) ADR Classification Code: 5F		
IMDG	:	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency schedules</u> F-D, S-U <u>Special provisions</u> 63, 190, 277, 327, 344, 381, 959		
ΙΑΤΑ	:	The environmentally hazardous substance mark may appear if required by other transportation regulations. Quantity limitation Passenger and Cargo Aircraft: 75 kg. Packaging instructions: 203. Cargo Aircraft Only: 150 kg. Packaging instructions: 203. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y203. Special provisions A145, A167, A802		
14.6 Special precautions for user	:	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.		
14.7 Transport in bulk according to IMO instruments	:	Not available.		

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

<u>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous</u> <u>substances, mixtures and articles</u>

Product/ingredient name		%	Designation [Usage]			
butane propane isobutane		≤10 ≤10 ≤3	40 40 40			
Labeling	: Not applicat	ole.	•			
Other EU regulations						
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed					
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed					
Ozone depleting substance	<u>es (1005/2009/I</u>	<u>EU)</u>				
Not listed.						
Prior Informed Consent (Pl	IC) (649/2012/E	<u>U)</u>				
Not listed.						
Persistent Organic Polluta	<u>nts</u>					
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Germany

Degreaser Spray

SECTION 15: Regulatory information

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Not listed.

Aerosol dispensers



Extremely flammable

Detergents - Regulation (EC) No 907/2006

Annex VIIA - Labelling for Contents

Identification	Concentration
BÉNZYL ŚALICYLATE	30% and more less than 5% less than 5%

 VOC content
 : 99,98%

 VOC (g/L)
 : 668,9

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria Category P3a E2

National regulations

Ingredient name	Annex I Section A	Annex I Section B
propan-2-ol	Listed	-

Storage class (TRGS 510) : 2B

Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Category	Reference number
P3a	1.2.3.1
E2	1.3.2

Hazard class for water : 2

Technical instruction on : TA-Luft Number 5.2.5: 68.8-100%

air quality control

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

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Degreaser Spray

SECTION 15: Regulatory information

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list		
Australia	All components are listed or exempted.	
Canada	All components are listed or exempted.	
China	All components are listed or exempted.	
Eurasian Economic Union	Russian Federation inventory: Not determined.	
Japan	Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): Not determined.	
New Zealand	Not determined.	
Philippines	Not determined.	
Republic of Korea	Not determined.	
Taiwan	Not determined.	
Thailand	Not determined.	
Turkey	All components are listed or exempted.	
United States	Not determined.	
Viet Nam	Not determined.	
15.2 Chemical Safety Assessment	This product contains substances for which Chemical Safety Assessments are still required.	

SECTION 16: Other information

Indicates information that has changed from previously issued version.	
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Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Aerosol 1, H222, H229	On basis of test data
Skin Irrit. 2, H315	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

Degreaser Spray			
SECTION 16: Other information			
H220 H222, H229		Extremely flammable gas. Extremely flammable aerosol. Pressurized container: may burst if heated.	
H225 H226 H280 H304 H315 H317 H319 H336 H400 H411 H412 EUH066		 Highly flammable liquid and vapor. Flammable liquid and vapor. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Repeated exposure may cause skin dryness or cracking. 	
Full text of classifications	[CLP/GHS]	·	
Aerosol 1 Aquatic Acute 1 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Irrit. 2 Flam. Gas 1A Flam. Liq. 2 Flam. Liq. 3 Press. Gas (Comp.) Skin Irrit. 2 Skin Sens. 1B STOT SE 3		AEROSOLS - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 3 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE GASES - Category 1A FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 GASES UNDER PRESSURE - Compressed gas SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3	
Date of printing Date of issue/ Date of revision	: 2/5/2024 : 2/5/2024		
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Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.