

00916 PULISVELT - SMACCHIATORE SPRAY**Safety Data Sheet****1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Code: **00916**
Product name: **PULISVELT - SMACCHIATORE SPRAY**

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

Intended use: **Smacchiatore spray per tessuti**

1.3. Details of the supplier of the safety data sheet

Name: **.BERGEN S.RL.**
Full address: **Via Roam n° 90**
District and Country: **337060 Castel d'Azzano Verona - italia**

Tel. **045 512090**
Fax **045 512777**

e-mail address of the competent person responsible for the Safety Data Sheet: **angelo.rigliaco@bergen.it**

1.4. Emergency telephone number

For urgent inquiries refer to: **045 512090**

2. Hazards identification.**2.1. Classification of the substance or mixture.**

The product is classified as hazardous pursuant to the provisions set forth in Directives 67/548/EEC and 1999/45/EC and/or EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Danger Symbols: **F+-N**

R phrases: **12-51/53-67**

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

2.2. Label elements.

Hazard labelling pursuant to Directives 67/548/EEC and 1999/45/EC and subsequent amendments and supplements.



EXTREMELY FLAMMABLE



DANGEROUS FOR THE ENVIRONMENT

R12	EXTREMELY FLAMMABLE.
R51/53	TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
R67	VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.
S 2	KEEP OUT OF THE REACH OF CHILDREN.
S18	HANDLE AND OPEN CONTAINER WITH CARE.
S23	DO NOT BREATHE GAS/FUMES/VAPOUR/SPRAY (APPROPRIATE WORDING TO BE SPECIFIED BY THE MANUFACTURER).
S29	DO NOT EMPTY INTO DRAINS.
S46	IF SWALLOWED, SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.
S51	USE ONLY IN WELL-VENTILATED AREAS.
S61	AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEETS.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on bright flame or any incandescent material.

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Keep away from heat / sparks / open flames / hot surfaces. No smoking.
Keep out of the reach of the children.

2.3. Other hazards.

Information not available.

3. Composition/information on ingredients.**3. Composition/information on ingredients.****3.1. Substances.**

Information not relevant.

3.2. Mixtures.**Contains:**

Identification.	Conc. %.	Classification 67/548/EEC.	Classification 1272/2008 (CLP).
Isobutano			
CAS. 75-28-5	18 - 19,5	F+ R12, Note C	Flam. Gas 1 H220, Note C U
EC. 200-857-2			
INDEX. 601-004-00-0			
BUTANE			
CAS. 106-97-8	30 - 32,5	F+ R12, Note C	Flam. Gas 1 H220, Note C U
EC. 203-448-7			
INDEX. 601-004-00-0			
PROPANE			
CAS. 74-98-6	15 - 16,5	F+ R12	Flam. Gas 1 H220, Note U
EC. 200-827-9			
INDEX. 601-003-00-5			
CYCLOHEXANE			
CAS. 110-82-7	8,5 - 10	R67, F R11, Xn R65, Xi R38, N R50/53	Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Acute 1 H400, Aquatic Chronic 1 H410
EC. 203-806-2			
INDEX. 601-017-00-1			
PROPAN-2-OL			
CAS. 67-63-0	9 - 10,5	R67, F R11, Xi R36	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336
EC. 200-661-7			
INDEX. 603-117-00-0			
ACETONE			
CAS. 67-64-1	9 - 10,5	R66, R67, F R11, Xi R36	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC. 200-662-2			
INDEX. 606-001-00-8			

T+ = Very Toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritant(Xi), O = Oxidizing(O), E = Explosive(E), F+ = Extremely Flammable(F+), F = Highly Flammable(F), N = Dangerous for the Environment(N)

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

4. First aid measures.**4.1. Description of first aid measures.**

EYES: Irrigate copiously with clean, fresh water for at least 15 minutes. Seek medical advice.

SKIN: Wash immediately with plenty of water. Remove contaminated clothing. If irritation persists, seek medical attention. Wash contaminated clothing before using them again.

INHALATION: Remove to open air. If breathing is irregular, seek medical advice.

INGESTION: Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

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

For symptoms and effects caused by the contained substances see chap. 11.

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

Follow doctor's orders.

00916 - PULISVELT - SMACCHIATORE SPRAY**5. Firefighting measures.****5.1. Extinguishing media.**

SUITABLE EXTINGUISHING MEDIA

The extinction equipment should contain carbon dioxide, foam or chemical powders. For product leaks and spills that have not caught fire, nebulised water can be used to dispel flammable fumes and protect the individuals taking part in stemming the leak.

EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion.

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health.

Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with ties around arms, legs and waist) work gloves (fireproof, cut proof and dielectric), self-respirator (self-protector).

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

Eliminate sources of ignition (cigarettes, flames, sparks, etc.) from the air in which the leak occurred. If there are no contraindications, spray solid products with water to prevent the formation of dust. Use breathing equipment if fumes or powders are released into the air. Block the leakage if there is no hazard. Do not handle damaged containers or leaked product before donning appropriate protective gear. Send away individuals who are not suitably equipped. For information on risks for the environmental and health, respiratory tract protection, ventilation and personal protection equipment, refer to the other sections of this sheet.

6.2. Environmental precautions.

The product must not penetrate the sewers, surface water, ground water and neighbouring areas.

6.3. Methods and material for containment and cleaning up.

For liquid products, suck into a suitable container (made of material not incompatible with the product) and soak up any leaked product with absorbent inert material (sand, vermiculite, diatomaceous earth, Kieselguhr, etc). Collect the majority of the remaining material and deposit in containers for disposal. For solid products, use spark proof mechanical tools to collect the leaked product and place in plastic containers. If there are no contraindications, use jets of water to eliminate product residues. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

7. Handling and storage.**7.1. Precautions for safe handling.**

Avoid the accumulation of electrostatic charges.

Vapours may ignite with explosion, it is therefore necessary to avoid accumulation keeping the windows and doors open, ensuring crossventilation.

Without adequate ventilation, the vapours may accumulate at the bottom and ignite at a distance, if triggered off, with the risk of flashback. Keep far away from sources of heat, sparks and bright flames. Do not smoke, use matches or lighters. Keep the containers earthed while decanting and wear antistatic boots.

Vigorous stirring and flow through the pipings and equipment may cause the formation and accumulation of electrostatic charges due to the low conductivity of the product. In order to avoid the risk of fire outbreak and explosion never use compressed air during movement.

7.2. Conditions for safe storage, including any incompatibilities.

Store the containers sealed and in a well ventilated place.

7.3. Specific end use(s).

Information not available.

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8. Exposure controls/personal protection.

8.1. Control parameters.

Name	Type	Country	TWA/8h		STEL/15min		
			mg/m3	ppm	mg/m3	ppm	
CYCLOHEXANE	TLV-ACGIH			100			
	OEL	EU	700	200			
	OEL	IRL		100		300	
	WEL	UK		100		300	
PROPAN-2-OL	TLV-ACGIH			200		400	Skin
	OEL	IRL		400		500	Skin
	WEL	UK		400		500	Skin
ACETONE	TLV-ACGIH			500		750	
	OEL	EU	1210	500			
	OEL	IRL		500			
	WEL	UK		500		1500	

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protection equipment, make sure that the workplace is well aired through effective local aspiration or bad air vent.

HAND PROTECTION

Protect hands with category I (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in latex, PVC or equivalent. The following should be considered when choosing work glove material: degradation, breakage times and permeation. Work glove resistance to preparations should be checked before use, as it can be unpredictable. Gloves' limit depends on the duration of exposure.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (ref. Directive 89/686/CEE and standard EN 344). Wash body with soap and water after removing overalls.

RESPIRATORY PROTECTION

If the threshold value for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection service is exceeded, wear an FFP3 (ref. standard EN 141) type half mask.

The use of breathing protection equipment, such as masks with organic vapour and dust/mist cartridges, is necessary in the absence of technical measures limiting worker exposure. The protection provided by masks is in any case limited.

If the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in the event of an emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% volume, wear self-contained, open-circuit compressed air breathing apparatus (ref. standard EN 137) or fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece (ref. standard EN 138).

EYE PROTECTION

Use of protective airtight goggles (ref. standard EN 166) recommended.

9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance	aerosol
Colour	white
Odour	characteristic of solvent
Odour threshold.	Not available.
pH.	Not available.
Melting or freezing point.	Not available.
Boiling point.	< 35 °C.
Distillation range.	Not available.
Flash point.	< 0 °C.
Evaporation Rate	Not available.
Flammability of solids and gases	Not available.
Lower flammability limit.	Not available.
Upper flammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Specific gravity.	Not available.
Solubility	Not available.
Partition coefficient: n-octanol/water	Not available.
Ignition temperature.	Not available.
Decomposition temperature.	Not available.

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Viscosity Not available.
Reactive Properties Not available.

9.2. Other information.

Information not available.

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

There are no particular risks of reaction with other substances in normal conditions of use.

ACETONE: decomposes under the effect of heat.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

CYCLOHEXANE: can react violently with strong oxidising agents and liquid nitric oxide. Forms explosive mixtures with the air.

ACETONE: risk of explosion on contact with: bromine trifluoride, difluoro dioxide, hydrogen peroxide, nitrosyl chloride, 2-methyl-1,3 butadiene, nitromethane, nitrosyl perchlorate. Can react dangerously with: potassium tert-butoxide, alkaline hydroxides, bromine, bromoform, isoprene, sodium, sulphur dioxide, chromium trioxide, chromyl chloride, nitric acid, chloroform, peroxymonosulphuric acid, phosphoryl chloride, chromosulphuric acid, fluorine, strong oxidising agents. Develops flammable gases with nitrosyl perchlorate.

10.4. Conditions to avoid.

Avoid overheating, electrostatic discharge and all sources of ignition.

ACETONE: avoid exposure to sources of heat and naked flames.

10.5. Incompatible materials.

CYCLOHEXANE: butyl and natural rubber, neoprene, PVC, polyethylene.

ACETONE: acid and oxidising substances.

10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, vapours potentially dangerous to health may be released.

ACETONE: ketenes and other irritating compounds.

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

This product contains highly volatile substances, which may cause serious depression of the central nervous system (CNS) and have negative effects, such as drowsiness, dizziness, slow reflexes, narcosis.

CYCLOHEXANE: irritant to the skin and mucous membranes; may be absorbed by the skin; neurolesive actions may occur at high doses and to a great extent is due to its metabolite, cyclohexanone.

CYCLOHEXANE

LD50 (Oral):	> 5000 mg/kg Rat
LD50 (Dermal):	> 2000 mg/kg Rabbit
LC50 (Inhalation):	13,9 mg/l/4h Rat
PROPAN-2-OL	
LD50 (Oral):	4710 mg/kg Rat
LC50 (Inhalation):	72,6 mg/l/4h Rat
LD50 (Dermal):	12800 mg/kg Rat

12. Ecological information.

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it may even have negative effects on aquatic environment.

12.1. Toxicity.

CYCLOHEXANE

LC50 (96h):	4,53 mg/l/96h Pimephales promelas
IC50 (72h):	32,7 mg/l/72h Chlorella vulgaris
EC50 (48h):	3,89 mg/l/48h Daphnia magna

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12.2. Persistence and degradability.

CYCLOHEXANE: not easily biodegradable.

12.3. Bioaccumulative potential.

CYCLOHEXANE: moderate bioaccumulation potential (log Ko/w>3).

12.4. Mobility in soil.

CYCLOHEXANE: slightly mobile in soil.

12.5. Results of PBT and vPvB assessment.

Information not available.

12.6. Other adverse effects.

Information not available.

13. Disposal considerations.**13.1. Waste treatment methods.**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14. Transport information.

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations.

These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

Road and rail transport:

ADR/RID Class:	2	UN:	1950
Label:	2.1		
Nr. Kemler:	--		
Limited Quantity:	1 lt		
Tunnel restriction code:	(D)		
Proper Shipping Name:			

**Carriage by sea (shipping):**

IMO Class:	2.1	UN:	1950
Label:	2.1		
EMS:	F-D, S-U		
Marine Pollutant:	YES		
Proper Shipping Name:	AEROSOLS (CYCLOHEXANE)		

**Transport by air:**

IATA:	2.1	UN:	1950
Label:	2.1		

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

Seveso category. 8, 9ii

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Product.

Point. 40

Contained substance.

Point. 57 CYCLOHEXANE

Substances in Candidate List (Art. 59 REACH).

None.

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Changes to previous review:
The following sections were modified:
15.