



SILICONI COMMERCIALE spa

Via Francia 4 Z.I. - 36053 GAMBELLARA (VI) ITALY
Tel (0039) 444 649766 Fax 0444 440018

Safety Data Sheet PULIMAK

Safety Data Sheet of 01/06/2007

revision 3.5

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product Name: PULIMAK
Product Code: 10310/04
Product Type and Use: Spot Cleaner for fabric clothing (aerosol)
Company: SILICONI COMMERCIALE SPA - Via Francia 4 Z.I. - 36053 Gambellara (VI) - ITALY
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2. HAZARDS IDENTIFICATION

The product is classified as dangerous according to 67/548/CE and 1999/45/CE.

CE Classification:

F+: R12 Extremely flammable

Xi: R38 Irritating to skin

N: R51/53 Very Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R67 Vapours may cause drowsiness and dizziness.

Vapours are heavier than the air and the vapour of the propellant could form flammable mixtures which become explosive with the air. If the container is exposed to a temperature above 50°C it could deform and explode. The product is harmful for the environment and toxic to aquatic organisms after an acute exposure. In the long term it may cause adverse effects in the aquatic environment, being non-degradable or bioaccumulable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances classified as health hazard according to law 67/548/CEE :

10-15% ACETONE
CAS: 67-64-1 EINECS: 200-662-2 CEE: 606-001-00-8 REACH: - - -
F: R11 | Xi: R36 | R66 R67

10-20% CYCLOHEXANE
CAS: 110-82-7 EINECS: 203-806-2 CEE: 601-017-00-1 REACH: - - -
F: R11 | Xi: R38 | N: R50/53 | R67

15-19% HEXANE, mixture of isomers (containing < 5% di-n-hexane EC 203-777-6)
CAS: - - - EINECS: - - - CEE: 601-007-00-7
F: R11 | Xi: R38 | Xn: R65 | R67 | N: R51/53

PROPELLENT
F+: R12

For the wording of the listed risk phrases refer to section 16.

4. FIRST AID MEASURES

Skin contact:

Remove contaminated clothing and wash skin with soap and water.

Eye contact:

Don't use eyewashes or ointments before seeking medical attention. Wash eyes with large amounts of water for at least 10 minutes.

Ingestion:

N.A. as aerosol preparation.

Inhalation:

Remove patient from exposure. If breathing is irregular or stopped give artificial respiration. Seek medical attention.



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5. FIRE-FIGHTING MEASURES

Fire extinguishing media:

Foam, Co₂, dry powder, water, or foam.

Fire extinguishing avoided:

None.

Hazardous combustion products:

Aerosol cans may erupt with force at temperature above 50°C. The exposure of combustion gases can cause serious health risks. Thermal decomposition makes smoke, fumes and oxides of carbon. Avoid inhaling the vapours.

Fire fighting protective equipment:

Fire fighting protective equipment:

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions: self-breathing, helmet with peak and neck protection, fire-proof jacket and trousers with bands around arms, legs and wrist.

6. ACCIDENTAL RELEASE MEASURES

Personal protection:

Wear protective garments and gloves. Avoid inhaling vapours.

Environment protection:

Act to remove or intercept the seepage and proceed with the operation of containing and collection. Keep away from foreign. Avoid or reduce the dispersion of the material in the ground and in the environment. Eliminate all free flames and any possible source of ignition. Do not smoke. Gather the waters or the contaminated ground in specific containers sending them to a suitable reclamation treatment. If the products reaches rivers, sewerage, or contaminates the ground or the vegetation inform the competent authorities.

Cleaning method:

Absorb spillages on to sand, vermiculite, earth or any suitable absorbent material.

7. HANDLING AND STORAGE

Handling:

Pressurized container. Do not perforate or burn even after use. Do not use near fire or other possible sources of ignition. During work phase do not smoke, don't eat nor drink. Avoid the accumulation of gas on air.

Storage:

Store in vertical position, avoiding that the container could fall down. Store in cool, well ventilated place out of direct sunlight and away from sources of heat. Store at temperatures inferior to 50 °C.

Place Identification:

Cool and ventilated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

General hygiene and protective measures:

Keep the container and use the product only in well ventilated place. A located ventilation may be necessary for some operations.

Respiration protection:

The levels of air concentration should be maintained under the exposure limits. If inhalation are over exposure limit use a supplied air respirator with cartridge filter. Filter type EN 141.

Hand protection:

During normal manipulation it is not necessary a particular protection. In case of frequent contacts protect hands with gloves resistant to solvents (OVC, PE, neoprene, not natural rubber). It is advisable a n° 6 factor of protection, correspondents to >480 min/sec EN374 permeation time. Change the used gloves in case of signs, cracks or internal contamination.



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Eye protection:

Wear goggles with lateral protection EN166 . If exposure to vapours cause a sense of bother to eyes, use antigas mask with complete facial.

Skin protection:

It is not necessary in case of brief contact except for wearing antistatic clean and covering garments. In case of long and frequent contact use protective and waterproof garments to this material. Choosing specific protection as peak, gloves, boots, overalls depends on the type of operations.

Occupational Exposure limits:

ACETONE (10-15%) TLV-TWA: 500ppm (1210mg/m³) TLV-STEL: N.D.

CYCLOHEXANE (10-20%) TLV-TWA: ppm (1030mg/m³) TLV-STEL: N.D.

HEXANE-mixture of isomers (15-19%) TLV-TWA: 600ppm (1770mg/m³) TLV-STEL: 750ppm (2210 mg/m³)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour: pressurized container with base and liquefied gas

Odour: characteristic

pH: neutral

Flammable point: <21 °C

Propellent autoignition temperature: 287°C

Vapour pressure: 3-5 bar

Solubility (water): partial

Solubility (oil): partial

Flammable: yes

10. STABILITY AND REACTIVITY

Condition to avoid:

Stable to normal conditions. Keep away form heat, sunlight and flame.

Material to avoid:

Keep away from oxidant agents.

Hazardous decomposition products:

It doesn't decompose. With thermal decomposition it could form carbon dioxide and carbon monoxide and fosgene traces.

11. TOXICOLOGICAL INFORMATION

This information are based on every single formulation's component.

Acute toxicity:

Inhalation: Long exposure may not cause an absorption through the skin in harmful quantities. Breathing high concentration of vapour may have effect on central nervous system with vomit, headness, dizziness.

Long and frequent exposure may cause anaemia, hepatic disturbs and effects on nervous system.

Dose and lethal concentration of components:

LD50 Oral(Rat):N.E. mg/kg LD50 Skin(Rabbit):N.E. mg/kg LC50 Inhal (Rat 4h):N.E. mg/m³

Sensitive effects:

From the available data the product seems not to have specific risks for this way.

Carcinogenic effect :

Unknown.

Eye contact:

It may cause eye irritation with light disturbs, but it does not damage the eye.

Skin contact:

In case of long exposure may cause skin irritation.



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12. ECOLOGICAL INFORMATION

Use according to good working practices and avoid uncontrolled dispersion of the product in the environment.
IT DOES NOT CONTAIN CFC.

Mobility: Air- Considerable volatility due to high vapour tension. Water- it evaporates quickly, the speed of evaporation is limited by water speed diffusion. Environment of the earth- it evaporates.

Persistence and degradability:

Degradation for photolysis through diffusion in atmosphere.

None dangerous effect for ozone: DOP= zero

Biodegradability: N.E. (OECD 301 B)

Potential of biological accumulation:

Absent

Ecotoxicity:

Ecotoxicological data of components:

LC50(Fish 96h):mg/l EC50 (Daphnia 48h): mg/l EC50 (Algae 48h): N.D.

13. DISPOSAL CONSIDERATIONS

DISPOSAL OF THE PRODUCT

Disposal should be in accordance with local, state or national legislation. Aerosol container can explode at temperature above 50°C if contains little gas residue. Spray all the aerosol content before disposal. The product has to be considered : special dangerous disposal.

DISPOSAL OF THE CONATINER:

Empty cans , even if not completely emptied, has not to be wasted in the environment. The containers that contains residues of the product have to be classified, stocked and sent to a specific treatment plant respecting both national and regional regulations.

EUROPEAN CODE CATALOGUE FOR WASTES:

The aerosol as a domestic waste is excluded from the application of such a normative For industrial activity, the empty aerosol for professional use can be classified as follow: 15.01.10: packaging containing residues of dangerous substances or residues contaminated by these substances.

14. TRASPORT INFORMATION

ADR-RID

Classe: 2,5 F

UN n°: 1950 aerosol

Packaging group: - - - Label: <UN 1950 aerosols> Proper shipping name: AEROSOLS, flammable

Limited Quantity: max 1000ml Total gross mass of package not exceed 30 kg (ADR 2007) LQ2

IMDG-IMO

Class: 2

UN n°: 1950 aerosol

Packing group: - - Label: <UN 1950 aerosols> Proper shipping name: AEROSOLS

Ems: F-D; S-U Marine Pollutant: no

Limited Quantity: max 1000ml Total gross mass of package not exceed 30 kg (Amdt.31-02)

ICAO-IATA

Class: 2.1

UN n°: 1950 aerosol

Packaging group: - - Label: <UN 1950 aerosols> Proper shipping name: AEROSOLS, flammable

Limited Quantity: max 1000ml Total gross mass of package not exceed 30 kg

aerosol (>50ml e <1000ml)



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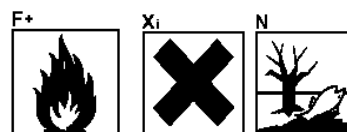
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15. REGULATORY INFORMATION

Directive 1999/45/CE and 2001/60/CE (Classification and labelling):

Symbols:

- F+ Extremely Flammable
- Xi Irritating
- N Dangerous for the environment



R Phrases:

- R12 Extremely flammable
- R38 Irritating to skin
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- R67 Vapours may cause drowsiness and dizziness

S Phrases:

- S2 Keep out of children's range.
- S23 Do not breathe vapours
- S51 Use only in a well ventilated place

Special disposal(Directive CEE 94/1) Aerosol:

- Pressurized container. Do not expose to sun rays and to temperature above 50°C.
- Do not pierce or burn, even when empty. Avoid to inhale directly and to spray into for eyes.
- Do not vaporize onto flames or on incandescent bodies.
- Keep away from any combustion source. Do not smoke.
- For professional use only. The manufacturer cannot be held responsible in case of damages caused by incorrect use of the product.

Directive CE:

- Direttiva 98/24/CE (Safety of workers from Chemical Substances)
- Direttiva 76/769/CE (Limitations) N.A.
- Direttiva 2004/42/CE (COV Paints and Coating) N.A.
- Direttiva 648/2004 (Detergents)

16. OTHER INFORMATION

Text of R-Phrases quoted on section 3 of this Data Sheet:

- R10 Flammable - R11 Highly Flammable - R12 Extremely flammable
- R36 Irritating to eyes - R38 Irritating to skin
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- R65 Harmful: may cause lung damage if swallowed - R67 Vapours may cause drowsiness and dizziness

References:

- NIOSH – Registry of toxic effects of chemical substances (1983)
- I.N.R.S. – Fiche toxicologique
- CESIO – Classification and labelling of anionic, non ionic surfactant (1990)
- ACGIH – Valori limiti di soglia –TLV per il 1999
- Directive 2001/60/CE (Labelling of Dangerous preparations) and Directive 2004/73/CE (29° amendment on Directive 67/548/CE).
- This Safety Data Sheet was prepared in compliance with Regulation 1907/2006/CE REACH.

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. Nothing herein is to be construed as a warranty, express or otherwise. In all cases, it is the responsibility of the user to determine the applicability of such information or the suitability of any products for their own particular purpose. It is responsibility of the user to conform at all Sanitary, Safety and Environmental Regulations.
This Safety Data Sheet replace all previous edition.