

EC-Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date: 02.08.2011

last revision: 03.01.2011

1. Identification of the substance/preparation and of the company/undertaking:

• Product details

• Trade name: Anti Marten Spray

• Article number: 61310

• Application of the substance/the preparation: Repellant

• Manufacturer/Supplier: OPN CHEMIE

OPN CHEMIE

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• Phone: 02735/7725-0

• Further information obtainable from: Frau Petri
Phone: 02735/7725-12

e-Mail: info@opn-chemie.de

Date: 02.08.2011

2. Hazards identification:

• Hazard description: Extremely flammable, Dangerous for the environment



• Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of the „General Classification guideline for preparations of the EU“ in the latest valid version.

R12 Extremely flammable.

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

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

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 a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Buildup of explosive mixtures possible without sufficient ventilation. Keep out of the reach of children.

• Classification system:

The classification is according to the latest editions of the EU-lists and extended by company and literature data.

3. Composition/information on ingredients:

• Chemical characterization:

• Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

• CAS-No.: 109-66-0, pentane

• Identification-No.:

• EINECS-No.: 203-692-4



R12,51/53,65,66,67
30-50%

• CAS-No.: 106-97-8, butane

• Identification-No.:

• EINECS-No.: 203-448-7



R12
20-30%

• CAS-No.: 74-98-6, propane

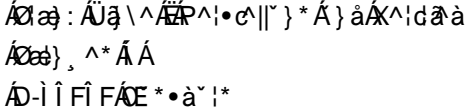
• Identification-No.:

• EINECS-No.: 200-827-9



R12
1-10%

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- Trade name: Anti Marten Spray
- Article number: 61970
- Manufacturer/Supplier: 

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- CAS-No.: 75-28-5, isobutane
- Identification-No.:
- EINECS-No.: 200-857-2



- CAS-No.: 1222-05-5, Galaxolide 50
- Identification-No.:
- EINECS-No.: 214-946-9



R50/53
<10%

4. First aid measures (Symptoms):

- Skin contact: Can cause slightly irritation at the contact area.
- Eye contact: Recrudescence of irritation and Redness are possible.
- Swallow: Can cause headache or sickness.
- Inhalation: Can cause drowsiness or confusion.

4. First aid measures (Measures):

- After skin contact: Immediately wash with water and soap and rinse thoroughly. Immediately remove any clothing soiled by the product.
- After eye contact: Rinse opened eye for several minutes under running water. Consult a doctor.
- After swallowing: Do not induce vomiting; call for medical help immediately.
- After inhalation: Supply fresh air; consult doctor in case of complaints. Take affected persons into fresh air and keep quiet.

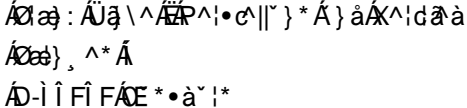
5. Fire-fighting measures:

- Suitable extinguishing agents: Carbon dioxide, dry powder, water spray jet.
- For safety reasons unsuitable extinguishing agents: Water with full jet.
- Special hazards caused by the substance, its products of combustion or resulting gases: Can form explosive gas-air mixtures.
- Protective equipment: Wear self-contained respiratory protective device.
- Additional information: Cool endangered receptacles with water spray. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6. Accidental release measures:

- Personal precautions, protective equipment and emergency procedures: Personal protective equipment look article 8.
- Measures for environmental protection: Do not allow to enter sewers/surface or ground water. In case of appearance of smoke or gases warn neighborhood.
- Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.
- Additional information: See section 13 for disposal information.

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- **Article number:** 61970
- **Manufacturer/Supplier:** 

7. Handling and storage:

















- **Handling:**
- **Information for safe handling:**
 - Ensure good ventilation/exhaustion at the workplace.
 - Do not use in closed rooms.
- **Information about fire and explosion protection:**
 - Keep ignition sources away - Do not smoke.
 - Protect against electrostatic charges.
 - Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.
 - Do not spray onto a naked flame or any incandescent material.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
 - Store in a cool location.
 - Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from heat and direct sunlight.

8. Exposure controls/personal protection:

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**

109-66-0	pentane
AGW (8 hours exposition):	1.000 ppm
106-97-8	butane
AGW (8 hours exposition):	1.000 ppm
74-98-6	propane
AGW (8 hours exposition):	1.000 ppm
75-28-5	isobutane
AGW (8 hours exposition):	1.000 ppm
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing.
 - Wash hands before breaks and at the end of work.
 - Do not inhale gases/fumes/aerosols.
 - Avoid contact with the eyes and skin.
- **Respiratory protection:** Respiratory protective device have to be available.
- **Protection of hands:**
 - Protective gloves.
- **Material of gloves:**
 - Nitrile rubber, NBR
- **Penetration time of glove material:**
 - ≥ 8 hours
 - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed goggles.
- **Body protection:** Protective work clothing.

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9. Physical and chemical properties:

• General Information

- Form: Aerosol
- Colour: Yellow
- Odour: Characteristics odour
- Evaporation rate: Abstinent.
- Solubility in water: Not miscible.
- Explosion Limit in %: **Lower:** 1,4
Upper: 32,0
- Flash point in °C: -60
- Ignition temperature °C: 510
- Vapour pressure: 2800 hPa
- Density relatively: 0,656 g/ml
- Concentration of solvent:
 - Organic solvent:
 - VOC (EU):
 - VOCV (CH): 471 g/l

10. Stability and reactivity:

- Stability: Under normal conditions solid.
- Conditions to avoid: Direct sunlight. Heat.
- Compound to avoid: Oxidant.
- Dangerous decomposition product: In case of combustion discharge of toxic gases like carbon dioxide/carbon monoxide.

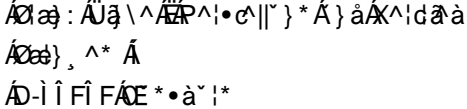
11. Toxicological information:

- Acute toxicity:
- Primary irritant effect:
 - on the skin: No irritating effect.
 - on the eyes: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information: Vapours have narcotic effect.

12. Ecological information:

- General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow product to reach ground water, water course or sewage system.

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13. Disposal considerations:

- Product:
- Recommendation:
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- European waste catalogue
 - 16 05 04 gases in pressure containers (including halons) containing dangerous substances
 - 15 01 04 metallic packaging
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

14. Transport information:

- Land-Transport ADR/RID and GGVS/GGVE (cross-boarder/inland):



- ADR/RID-GGVS/E Class: 2
- Classification code: 5F
- Kemler-Code: -
- UN-Number: 1950
- Packaging group: -
- Hazard label: 2.1
- Description of the good: 1950 AEROSOLS
- Limited Quantity (LQ): LQ2
- Tunnel restriction code: D

- Marine transport IMDG/GGVSee:



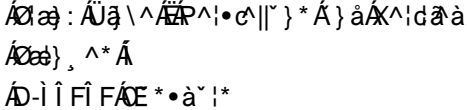
- IMDG/GGVSee-Class: 2.1
- UN-Number: 1950
- Label: 2.1
- Packing Group: -
- EMS-Number: F-D,S-U
- Marine pollutant: No
- Real technical name: AEROSOLS

- Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA-Class: 2.1
- UN/ID-Number: 1950
- Label: 2.1
- Packing Group: -
- Real technical name: AEROSOLS, flammable

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15. Regulatory information:

• Labeling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives/Ordinance on Hazardous Materials.

• Classification:



F+ Extremely flammable
N Dangerous for the environment

- R-phrases: R12 Extremely flammable.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

- S-phrases: S2 Keep out of the reach of children.
S16 Keep away from sources of ignition - No smoking.
S23 Do not breathe spray.
S29 Do not empty into drains.
S51 Use only in well ventilated areas.
S60 This material and its container must be disposed of as hazardous waste. Please take only completely evacuated cans to recycling.

• Special labeling of certain preparations:

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 a naked flame or any incandescent material. Buildup of explosive mixtures possible without sufficient ventilation.

16. Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- R-phrases at point 3:
R12 Extremely flammable.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.