

RAT SPRAY

MATERIAL SAFETY DATA SHEET

according to the regulation 878/2020 Annex II

Revision 3.0 of 01/04/2022

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

1.1 – Product details

Trade name: **RAT SPRAY**

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

Aerosol attractant for mice and rats.

Not applicable in other uses than the uses identified.

1.3 – Details of the supplier of the safety data sheet

Manufacturer/Supplier: ORMA S.r.l. - Via A. Chiribiri 2 - 10028 Trofarello TO

Tel. +39/011.64.99.064 Fax +39/011.68.04.102

Qualified technician on drafting the MSDS: regulatory@ormatorino.it

1.4 – Emergency telephone number:

+39/011.6499064 (ORMA, office hours)

For urgent information, **call a Poison Centre** opened 24 hours a day

(ex. Centro Antiveneni Ospedale Niguarda, Milano +39/02.66101029)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according the CLP Regulation N. 1272/2008 and subsequent modifications and adjustments

Classification	Flammable aerosol
	Category 1
GHS Pictograms	GHS02 
Signal Word	DANGER
Hazard Statement	H229
Supplemental hazard information	---

2.2 – Label elements

Hazard labelling of the preparation according to CLP Regulation N. 1272/2008 and subsequent modifications and adjustments:



Hazard statements (H):

H229: Pressurized container: may burst if heated.

Precautionary statements (P):

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P211: Do not spray on an open flame or other ignition source.

P251: Pressurized container: Do not pierce or burn, even after use.

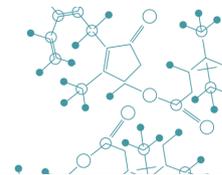
ORMA S.r.l.

Sede legale: Corso Matteotti n. 57, 10121 Torino

Sede amministrativa e commerciale

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P270: Do not eat, drink or smoke when using this product.
P273: Avoid release to the environment.
P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C.

2.3 – Other hazards

Not available information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 – Substances: Not pertinent information.

3.2 – Mixture: It contains

Name	Registration number	CAS N°	EINECS N°	CLP Classification	%
HYDROCARBONS C4*	01-2119480480-41-XXXX	87741-01-3	289-339-5	Flam. Gas 1 H220 Press. Gas H280 Nota U-K	< 50%
PROPANE	01-2119486944-21-XXXX	74-98-6	200-827-9	Flam. Gas 1 H220 Press. Gas H280 Nota U	< 50%

*The commercial composition may contain small amounts of other saturated hydrocarbons (ethane, isobutane and pentane) or unsaturated (butylene or propylene). It CONTAINS 1,3-BTADIENE IN QUANTITY 'MORE THAN 0,1%. Then the classification of Toxic phrases H350 and H340 can be omitted. The full text of hazard (H) phrases is given in section 16. Notes U, K (Annex 1 Directive 67/548 EEC and / or Annex VI to Regulation EC 1272/2008). See section 16.

SECTION 4: FIRST-AID MEASURES

4.1 – Description of first-aid measures

General information: if symptoms persist, seek medical care, giving the information contained in the label and in this sheet. In case of accident, the first-aid measure should be performed by trained personnel, in order to avoid the injured further complication or damages.

After eye contact: Rinse opened eye with water for several minutes and get medical advice.

After skin contact: Immediately wash with plentiful running water.

After inhalation: remove the patient to fresh air; consult get medical advice if necessary.

After swallowing: get medical advice, showing the safety sheet. Do not induce vomiting.

4.2 – Main symptoms and effects, both acute and retarded

For symptoms and effects caused by the substances see section 11. Symptoms of poisoning may even occur after several hours, therefore medical observation for at least 48 hours after the accident may be necessary.

4.3 – Indications about the possible need to get medical advice and special treatments

Symptomatic treatment and control of vital functions.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 – Extinguishing agents:

Suitable extinguishing agents: CO₂, dry chemical extinguisher, sand.

Unsuitable extinguishing agents: Water with full jet. Water is not effective for fire-extinguishing, however it can be used to cool down containers exposed to flames, in order to prevent bursts and explosions.

5.2 – Special hazards arising from the substance or mixture

Particular fire dangers: In case of fire, toxic gas and irritating vapours emission.

5.3 – Advice for firefighters

Protective equipment: Wear suitable rebreather (especially in indoor locals) and complete protection outfit.

Special procedures: Contain the spread. Stay upwind. Avoid to breathe vapours. Cool down the containers exposed to fire with nebulized water. Avoid extinguishing water to release to the environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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6.1 – Personal precautions, protective equipment and emergency procedures

Use suitable personal protective equipment (see section 8). Ensure adequate ventilation.

6.2 Environmental precautions

Keep the product away from sewers, fluvial and marine water to avoid environmental pollution (in that case, inform respective authorities).

6.3 – Methods and material for containment and cleaning up

In case of spreading on the ground, stem with sand or soil and collect with absorbing material. Dispose the collected material in disposal container (see Section 13).

6.4 – Reference to other sections

Further information regarding individual protection and disposal are reported in section 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 - Precautions for safe handling

Ensure good ventilation. Avoid eating, drinking and smoking. Use suitable protective clothes (see Section 8). Wash with water and soap after handling; ensure good ventilation of the workplace. Do not smoke and do not use on naked flame. Do not spray onto a naked flame or any incandescent material. 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, for example incandescent lamps. Do not pierce or burn. Even after use.

7.2 - Conditions for safe storage, including any incompatibilities

Store in the original tightly sealed receptacle, away from food and beverages and away from the reach of children and domestic animals. Store in a cool location. Protect from direct sunlight. Where applicable, observe official regulations on storing packaging with pressurized containers.

7.3 - Specific end use(s)

No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 – Control parameters

C1-C4 alkanes (propane and butane): 1000 ppm. Ref. ACGIH (see section 16).

C4 hydrocarbons: DNEL 23.4 mg/kg, exposure to long-term/systemic effects/dermal workers;

C4 hydrocarbons: DNEL 0,0064mg/m³ long-term exposure/systemic effects/inhalation/consumer.

8.2 – Exposure controls

General protective measures: Use the preparation according the indication contained in this safety sheet. Use individual protective devices recommended in this section.

Respiratory protection: In not so ventilated environments, where high percentage of product could be present, protect adequately the respiratory tract (mask with suitable filter against gas and solvents).

Protection of hands: Use impermeable and chemical substances resistant gloves (EN 374).

Eye protection: Use safety glasses with side protection, in case of possible contact to eyes.

Body protection: If need use protective coats.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

Form:	aerosol
Color:	pale yellow
Odor:	characteristic: Hazelnut/Fish/Anise
Boiling Temperature	-41°C
Ignition point	14°C
Ignition temperature	425°C
Explosion hazard	Non-explosive product
Flammability limits	
- lower	1.8 vol%

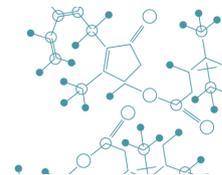
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- upper	12.0 vol%
Vapour pressure 20 °C	43.0 hPa
Density	N.A.
Solubility in water	Slight soluble

SECTION 10: STABILITY AND REACTIVITY

10.1 – Reactivity

Not particular reactivity danger with other substances under normal operating conditions.

10.2 – Chemical Stability

Stable under normal operating and storage conditions.

10.3 – Possibility of hazardous reactions

No dangerous reactions known.

10.4 - Conditions to avoid

Avoid overheating, electrostatic charge, direct exposition to sun and any lighting source.

10.5 - Incompatible materials

No further relevant information available.

10.6 – Hazardous decomposition products

The thermal decomposition causes the formation of hazardous compounds.

SECTION 11: TOXICAL INFORMATION

11.1 – Information on toxicological effects

Inhalation	Possible irritations of respiratory tract (in case of continuous inhalation narcotic effects caused by propellants may occur).
Swallowing	Possible irritations, nausea, vomit, abdominal diseases.
Skin contact	Possible irritations.
Eyes contact	Possible irritations.

Toxicological data :

C4 hydrocarbons: LC50 rat: 5,3 mg / l (4h) inhalation. Irritant effect heat to the skin and eyes due to cold temperature. No sensitizing effect found.

Propane: LC50 rat: 658 mg / l (4h) inhalation. Irritant and corrosive to mucous membranes. It can cause burns from cold. Respiratory sensitization: causes headache and drowsiness.

SECTION 12: ECOLOGICAL INFORMATION

The mixture is very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.1 – Toxicity

C4 hydrocarbons: fish LC50: 19 mg / l acute toxicity (96h); Daphnia magna LC50: 14.2 mg / l acute toxicity (48h); Algae EC50: 7.7 mg / l acute toxicity (96h).

12.2 - Persistence and degradability

No further information available.

12.3 – Bioaccumulative potential

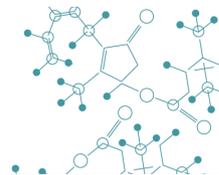
No further information available.

12.4 – Mobility in soil

No further information available.

12.5 – Results of PBT and vPvB assessment

No further information available.



12.6 – Other adverse effects

C4 hydrocarbons: due to the evaporation of liquid gas spilled, it may emerge in the ecosystem, freeze damage (dangerous substance on the water).

SECTION 13: DISPOSAL CONSIDERATION

13.1 – Waste treatment methods

General recommendation: Recover if possible. Operate according to local and national dispositions in force. Containers, even if completely emptied, must not be released to the environment. If they contain residues, they must be classified, stored and sent to an appropriate waste management plant. For a non-professional use the completely empty container can be disposed with household garbage, according to the local dispositions for waste separation.

SECTION 14: TRANSPORT INFORMATION

14.1 – UN number

1950

14.2 – UN proper shipping name

AEROSOL Flammable

14.3 – Transport hazard class(es)

Class:2 5F label 2.1

14.4 – Packing group

N.A.

14.5 – Environmental hazards

Marine pollutant - no

14.6 – Special precautions for user

Special dispositions 190, 327, 344, 625

14.7 – Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

SECTION 15: REGULATORY INFORMATION

15.1 – Specific standards and legislation on health, safety and environment for the preparation/substance

Substances in Candidate List (Art. 59 REACH): None

Restrictions on the product or the substances contained according to EC-Regulation 1907/2006 Enclose XVII:None. Seveso Category: 7b, 9i.

Substances subject to authorization (REACH Enclose XIV):None.

Regulations:

- Regulation (CE) 1272/2008 of European Parliament (CLP);
- Direttiva 98/24/CE - D.Lgs 81/2008;
- Regulation (CE) 1907/2006 (REACH);
- Regulation (CE) 790/2009 of European Parliament (I Atp. CLP);
- Regulation (CE) 453/2010 of European Parliament;
- Banca dati sulle sostanze GESTIS – IFA (Institute für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung).
- Regulation (CE) 830/2015 of European Parliament
- Regulation (UE) 1179/2016 (9° ATP CLP);
- Biocidal Products Committee (BPC) opinion June 2016
- The E-Pesticide Manual Versione 2.1 (2001)
- Directive 2006/8/CE
- Regulation 1907/2006/CE
- Regulation (CE) 1272/2008

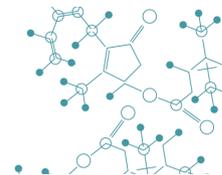
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- Regulation (UE) 878/2020
- Regulation (CE) 2016/918
- Regulation (UE) 528/2012
- Regulation (CE) 790/2009 (1° ATP CLP)
- Regulation (UE) 286/2011 (2° ATP CLP)
- Regulation (UE) 618/2012 (3° ATP CLP)
- Regulation (UE) 487/2013 (4° ATP CLP)
- Regulation (UE) 944/2013 (5° ATP CLP)
- Regulation (UE) 605/2014 (6° ATP CLP)
- Regulation (UE) 1221/2015 (7° ATP CLP)
- Regulation (UE) 918/2016 (8° ATP CLP)
- Regulation (UE) 918/2016 (8° ATP CLP)
- Regulation (UE) 1179/2016 (9° ATP CLP)
- Regulation (UE) 776/2017 (10° ATP CLP)
- Directive 2012/18/UE (Seveso III)
- Regulation (UE) 878/2020

15.2 – Chemical safety assessment

A chemical safety assessment for the product has been not elaborated.

SECTION 16: OTHER INFORMATION

Notes (section 8): **TLV-TWA** (Threshold Limit Value –Time Weighted Average): limit values weighted in 8 hours. **TLV-STEL** (Threshold Limit Value – Short Time Exposure Limit).
ACGIH (American Conference of Governmental Industries Hygienists).

Notes (section 3.2): **Note U:** When put on the market gases have to be classified as "Gases under pressure" in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.
Note K: The classification as a carcinogen need not apply if it can be shown that MIXTURE CONTAINS 1,3-BUTADIENE PERCENT LOWER THAN 0.1% OF WEIGHT / WEIGHT (EINECS no. 203450-8). If the substance is not classified as a carcinogen at least should include precautionary statements (P102-) P210-403.

Hazard indication text (H) mentioned on sheet section 2-3

H220 – Highly flammable gas

H280 – Contains gas under pressure; may explode if heated.