



Safety Data Sheet
 ANTI BACTERIAL SPRAY 11.020 11.023 11.023/1 11.024 11.024/1
 ELKE S.A.S.
 VIA GRAZIA DELEDDA 72 10060 CANDIOLO (TO) ITALIA
 REA di TO: 987683 P.Iva 08613670010
 Tel. n.. +39 011 9622412 Fax n. +39 011 9625620



Safety Data Sheet dated 27/09/2010, version 3

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Trade name: ANTI BACTERIAL SPRAY
 Trade code: 11.020 11.023 11.023/1 11.024 11.024/1
 Product type and use: Technical products
 Company:
 ELKE s.a.s. di Amosso D. & C. Via Grazia Deledda 72 10060 Candiole (TO) Italia.
 Emergency telephone number of the company and/or of an authorised advisory centre:
 ELKE s.a.s. di Amosso D. & C. Tel. n.. +39 011 9622412 Fax n. +39 011 9625620
 Competent person responsible for the safety data sheet:
 Domenico Amosso domenico.amosso@elke-ac.com

2. HAZARDS IDENTIFICATION

Properties / Symbols:
 F+ Extremely flammable
 R Phrases:
 R12 Extremely flammable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:

40% - 50% butane [1]
 N.67/548/CEE: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7
 F+; R12; substance with a Community workplace exposure limit

20% - 25% propane
 N.67/548/CEE: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9
 F+; R12; substance with a Community workplace exposure limit

15% - 20% and isobutane [2]
 N.67/548/CEE: 601-004-00-0 CAS: 75-28-5 EC: 200-857-2
 F+; R12; substance with a Community workplace exposure limit

7% - 10% isopropanol
 N.67/548/CEE: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7
 F,Xi; R11-36-67

753 mg/kg ethanediol
 N.67/548/CEE: 603-027-00-1 CAS: 107-21-1 EC: 203-473-3
 Xn; R22

4. FIRST AID MEASURES

Contact with skin:
 Wash with plenty of water and soap.
 Contact with eyes:
 Wash immediately with water for at least 10 minutes.
 Swallowing:
 Induce vomiting. SEEK A MEDICAL EXAMINATION IMMEDIATELY and present the safety-data sheet.
 A suspension of activated charcoal in water, or liquid paraffin may be administered.
 Inhalation:
 Ventilate the premises. The patient is to be removed immediately from the contaminated premises and made to rest in a well ventilated area. Should the patient feel unwell, OBTAIN MEDICAL ATTENTION.

5. FIRE-FIGHTING MEASURES

Recommended extinguishers:
 CO2 or Dry chemical fire extinguisher.
 Extinguishers not to be used:
 None in particular.
 Risks arising from combustion:
 Avoid inhaling the fumes.
 Protective equipment:
 Use protection for the respiratory tract.
 Cool the containers exposed to the fire with water.

6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:



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Use gloves and protective clothing.

Environmental measures:

Limit leakages with earth or sand.

Eliminate all unguarded flames and possible sources of ignition. Do not smoke.

If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

Cleaning methods:

If the product is in a liquid form, stop it from entering the drainage system.

Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.

After the product has been recovered, rinse the area and materials involved with water.

7. HANDLING AND STORAGE

Handling precautions:

Avoid contact and inhalation of the vapours. See, too, paragraph 8 below.

Do not eat or drink while working.

Do not smoke while working.

Incompatible materials:

None in particular.

Storage conditions:

Always keep in a well ventilated place.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Instructions as regards storage premises:

Cool and adequately ventilated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled.

Respiratory protection:

Use adequate protective respiratory equipment, e.g. CEN/FFP-2(S) or CEN/FFP-3(S).

Protection for hands:

Not needed for normal use.

Eye protection:

Not needed for normal use.

Protection for skin:

No special precaution must be adopted for normal use.

Exposure limit(s) (ACGIH):

butane [1]

TLV TWA: 1000 ppm

propane

TLV TWA: 1000 ppm

and isobutane [2]

TLV TWA: 1000 ppm

isopropanol

TLV TWA: 200 ppm, A4 - 491,53 mg/m³, A4 TLV STEL: 400 ppm, A4 - 983,07 mg/m³, A4

ethanediol

VLE 8h: 52 mg/m³ - 20 ppm VLE short: 104 mg/m³ - 40 ppm TLV TWA: A4 TLV STEL: C 39,39 ppm - C 100 mg/m³, A4

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:

Spray can

Odour:

perfumed of essence

pH:

N.A.

Melting point:

N.A.

Boiling point:

N.A.

Flash point:

< 0 °C

Solid/gas flammability:

N.A.

Explosive properties:

N.A.

Oxidizing properties:

N.A.

Vapour pressure:

N.A.

Relative density:

0,80 kg/l

Solubility in water:

undissolvable

Lipid solubility:

complete

Partition c. (n-octanol/H₂O):

N.A.

Vapour density:

N.A.

10. STABILITY AND REACTIVITY



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Conditions to avoid:

Stable under normal conditions.

Substances to avoid:

Avoid contact with combustible materials. The product could catch fire.

Hazardous decomposition products:

None.

11. TOXICOLOGICAL INFORMATION

The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

Set out below is the toxicological information relating to the main substances in the preparation.

The product does not contain toxicologically relevant substances.

12. ECOLOGICAL INFORMATION

Adopt good working practices, so that the product is not released into the environment.

13. DISPOSAL CONSIDERATIONS

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Where applicable, refer to the following regulatory provisions : 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

14. TRANSPORT INFORMATION

ADR-Class:	2.5F CAP. 2.2.2.1.6 UN1950
IATA-Class:	2.1
IMDG-Class:	2 Aerosols UN 1950
IMDG-Page:	2102

15. REGULATORY INFORMATION

Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments. Commission Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparation) and subsequent amendments. Commission Directive 98/24/EC (Protection of the health and safety of workers from the risk related to chemical agent). Commission Directive 2000/39/EC (Occupational exposure limit values). Regulation (EC) No 1907/2006 (REACH).



F+

Symbols:

F+ Extremely flammable

R Phrases:

R12 Extremely flammable.

S Phrases:

S16 Keep away from sources of ignition - No smoking.

S2 Keep out of reach of children.

S23 Do not breathe gas spray.

S46 If swallowed, seek medical advice immediately and show this container or label.

S51 Use only in well-ventilated areas.

S9 Keep container in a well-ventilated place.

Special Provisions:

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. Keep out of reach of children.

Where applicable, refer to the following regulatory provisions :

Directive 2003/105/CE ('Activities linked to risks of serious accidents').

16. OTHER INFORMATION

Text of R phrases referred to under heading 3:

R11 Highly flammable.

R12 Extremely flammable.

R22 Harmful if swallowed.

R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.



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Paragraphs modified from the previous revision:

- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 4. FIRST AID MEASURES
- 5. FIRE-FIGHTING MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 13. DISPOSAL CONSIDERATIONS
- 15. REGULATORY INFORMATION

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

ACGIH - Threshold Limit Values - 2004 edition

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.