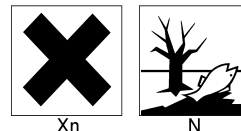




Safety Data Sheet
A/C Flush solvent not flammable 11.035 11.036 11.041
ELKE S.A.S.
VIA GRAZIA DELEDDA 72 10060 CANDIOLO (TO) ITALIA
REA di TO: 987683 P.Iva 08613670010
Tel. n. +39 011 9622412 Fax n. +39 011 9625620



Safety Data Sheet dated 27/2/2008, version 1

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

Trade name: A/C Flush solvent not flammable
Trade code: 11.035 _ 11.036 _ 11.041
Company: ELKE s.a.s. di Amosso D. & C. Via Grazia Deledda 72 10060 Candiolo (TO) talia.
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:
Xn Harmful
Xi Irritant
N Dangerous for the environment
R Phrases:
R10 Flammable.
R43 May cause sensitization by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

70% - 80% ALCANI C10

CAS: 124-18-5 EC: 204-686-4
Xn; R10-65-66

10% - 12.5% (R)-p-mentha-1,8-diene

N.67/548/CEE: 601-029-00-7 CAS: 5989-27-5 EC: 227-813-5
Xi,N; R10-38-43-50-53

7% - 10% isopropanol

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

1% - 3% 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:

Immediately take off all contaminated clothing.
Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Contact with eyes:

Wash immediately with water for at least 10 minutes.

Swallowing:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.
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:

In case of fire, use Water, CO₂, Foam, Chemical powders, according to the materials involved in the fire.

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.



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6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

Use a mask, 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:

Rapidly recover the product. To do so, wear a mask and protective clothing.

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 the containers tightly closed.

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:

Not needed for normal use.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Eye protection:

Use close fitting safety goggles and/or visor conforming to BS 2092 GRADE 1).

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Exposure limit(s) (ACGIH):

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

pH:	N.A.
Melting point:	N.A.
Boiling point:	>160°C
Flash point:	45°C < fp < 55 °C
Solid/gas flammability:	N.A.
Explosive properties:	N.A.
Oxidizing properties:	N.A.
Vapour pressure:	N.A.
Relative density:	0,75-0,85 kg/l
Partition c. (n-octanol/H ₂ O):	N.A.
Vapour density:	N.A.

10. STABILITY AND REACTIVITY

Conditions to avoid:

Stable under normal conditions.

Substances to avoid:

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

Hazardous decomposition products:

None.



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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.

ethanediol

LD50 (RABBIT) ORAL: 5017 MG/KG BW

12. ECOLOGICAL INFORMATION

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

List of substances dangerous for the environment and corresponding classification:

10% - 12.5% (R)-p-mentha-1,8-diene

N.67/548/CEE: 601-029-00-7 CAS: 5989-27-5 EC: 227-813-5

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic 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.

Dispose of this material and its container to hazardous or special waste collection point.

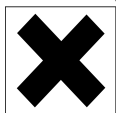
Where applicable, refer to the following regulatory provisions : 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

14. TRANSPORT INFORMATION

ADR-Class:	10
IATA-Class:	3.1
IMDG-Class:	3.2 Flammable liquid nas UN1993
IMDG-Page:	3230

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).



Xn



N

Symbols:

Xn Harmful

N Dangerous for the environment

R Phrases:

R10 Flammable.

R43 May cause sensitization by skin contact.

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

R65 Harmful: may cause lung damage if swallowed.

S Phrases:

S24/25 Avoid contact with skin and eyes.

S37 Wear suitable gloves.

S43 In case of fire, use Water, CO₂, Foam, Chemical powders, according to the materials involved in the fire.

S56 Dispose of this material and its container to hazardous or special waste collection point.

S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

S7 Keep container tightly closed.

Contents:

ALCANI C10

(R)-p-mentha-1,8-diene

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:

R10 Flammable.

R11 Highly flammable.

R22 Harmful if swallowed.

R36 Irritating to eyes.



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R38 Irritating to skin.

R43 May cause sensitization by skin contact.

R50/53 Very toxic 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.

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.