

MATERIAL SAFETY DATA SHEET

In accordance with Regulation 1907/2006 and Regulation 830/2015

Date of compilation: 23/05/14

Date of revision: 20/05/16 Revision: 1

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Product: **ARMAL GRAFITI REMOVER**

1. Identification of the substance/mixture and of the company/enterprise **

1.1 Product identifier: **ARMAL GRAFITI REMOVER**

1.2 Relevant identified uses of the substance or mixture:
Chemical product for removal of graffiti, grease, cement, tar etc

1.3 Details of the supplier of the safety data sheet:

ARMAL S.R.L.
Via Fiorentina, 109
50052 Certaldo (FI)
Tel. 0571/663455

1.4 Emergency phone number:
0571/663455 (Call during office hours)

E-mail TC: paolaulivi@dangerandsafety.it

2. Hazards identification **

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008:

Serious eye damage (Category 1)

Hazard statement Code(s):

H318 - Causes serious eye damage.

2.2. Label elements:

Pictogram, Signal Word Code(s):

Danger



Hazard statement Code(s):

H318 - Causes serious eye damage.

Precautionary statements:

Prevention

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor

Contains:

Alcohols, C9-11-iso-, C10-rich, ethoxylated.

2.3 Other hazard

None information

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3. Composition/Information on ingredients

3.2 Mixtures

Chemical composition:

Name	Concentration (C)	Classification
		Regulation CE/1272/2008
Benzyl alcohol	30 < C < 40	Acute Tox. 4 H332
Cas Nr 100-51-6		Acute Tox.4 H302
CE Nr 202-859-9		
Index Nr 603-057-00-5		
Alcohols, C9-11-iso-, C10-rich, ethoxylated	5 < C < 9	Acute Tox. 4 H302
Cas No 78330-20-8		Eye Dam. 1 H318
Polymer		

The full text of hazard statements is specified in section 16.

4. First-aid measures **

4.1 Description of first aid measures

Inhalation

Remove from the contaminated area and in well-ventilated. If symptoms occur in the respiratory system seek medical attention

Skin contact

Remove contaminated clothing. Wash with soap and water. If irritation persists, seek medical advice. Wash clothing before reuse.

Eyes contact

Rinse immediately with plenty of water for at least 15 minutes, holding the eyelids apart. Consult a doctor immediately.

Ingestion

Consult a doctor. Do not induce vomiting. Never give anything by mouth to an unconscious person and if indicated by the doctor.

Other

Remove contaminated clothing.

4.2 Most important symptoms and effects, both acute and delayed

Not available

4.3 Indication of any immediate medical attention and special treatment needed

In case of contact with eye: consult a doctor immediately

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5. Fire-fighting measures

5.1 Extinguishing media

Advised extinguishing agents:

CO₂, foam, chemical powder, nebulized water.

Unappropriate extinction methods:

None

5.2 Special hazards arising from the substance or mixture

The product under fire condition may develop irritant/toxic gas. (COx)

5.3 Advice for firefighters

Wear the fire equipment all the time. Water used in fire-fighting has to be disposed following Local regulation.

6. Accidental release measures **

6.1 Personal precautions, protective equipment and emergency procedures

Avoid the contact with skin and eyes. Supply a good air circulation. In case of formation of vapours use suitable respiratory protection. Move away any unauthorised person.

6.2 Environmental precautions

Collect the product in suitable container for disposal. If the product has escaped into waterways or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Cover with inert absorbent material (sand, earth, etc.). Collect as far as possible the treated mass. Use water only to remove residuals, so as to avoid the danger of entering the sewer.

6.4 Reference to other sections

Refer to paragraphs 8 and 13 for more information

7. Handling and storage **

7.1 Precautions for safe handling

Follow the good industrial hygiene practices. Do not eat, drink or smoke while handling. Ventilate the workplace.

7.2 Conditions for safe storage, including any incompatibilities

Store closed containers in a cool, well-ventilated place, away from ignition sources. Store at temperatures between 15 and 40 °C.

7.3 Specific end use(s)

For particular uses of the product, is necessary to refer to the specific information or contact the technical service of the Company.

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8. Exposure controls/personale protection **

8.1 Control parameters

None

8.2 Exposure controls

In order to minimize exposure as far as possible, it is strongly recommended to use adequate individual protective measures. Do not eat, drink or smoke while handling it. Accurately wash the hands with soap and water before meals and at the end of the work shift.

Individual protection

The DPI's choice must be done on the basis of the test's results obtained according to the rule EN 374

Hand protection: protective gloves of butyl, viton. Penetration time of glove material: the exact break through time has been found out by the manufacturer of the protective gloves and has to be observed.
Eye protection: safety glasses
Skin protection: suitable protective clothing
Respiratory protection: mask with filter (type A) in case of insufficient ventilation.

9. Physical and chemical properties **

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	pale green liquid	
Odour	pleasant	
Odour threshold	not available	
pH	6.0 - 7.5	
Melting point/freezing point	not available	
Initial boiling point and boiling range	not available	
Flash point	>79.44°C	
Evaporation rate	not available	
Flammability (solid, gas)	non pertinent	
Upper/lower flammability or explosive limits	not available	
Vapour pressure	not available	
Vapour density	not available	
Relative density	not available	
Solubility	soluble in water	
Water solubility	completely soluble	
Partition coefficient: n-octanol/water	not available	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
Viscosity	not available	
Explosive properties	not explosive	
Oxidising properties	not oxidising	

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9.2. Other information

Specific Gravity : 1.04

VOC (Directive 1999/13/CE): 34-35%

10. Stability and reactivity **

10.1 Reactivity

In contact with strong oxidants exothermal reaction may occur.

10.2 Chemical stability

The product is stable in normal conditions of use and storage.

10.3 Possibility of hazardous reactions:

In addition to what expressly indicated it is not aware that under different conditions from those of the normal use of hazardous reactions occurring

10.4. Conditions to avoid:

Benzyl alcohol: Keep away from heat, sparks and flame. Exposure to air.

10.5. Incompatible materials:

Benzyl alcohol: Air, oxidizing substances, acids, iron, aluminium. Attacks many synthetic materials.

10.6. Hazardous decomposition products

Due to thermal decomposition or in the event of a fire vapours may be produced potentially dangerous to health (COx)

Benzyl alcohol: benzaldehyde.

11. Toxicological information **

11.1 Information on toxicological effects

ATE(mix) oral = 2.916,0 mg/kg

ATE(mix) inhal = 31,4 mg/l/4 h

- (a) acute toxicity: based on available data, the classification criteria are not met.
- (b) skin corrosion/irritation: based on available data, the classification criteria are not met.
- (c) serious eye damage/irritation: If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.
- (d) respiratory or skin sensitization: based on available data, the classification criteria are not met.
- (e) germ cell mutagenicity: based on available data, the classification criteria are not met.
- (f) carcinogenicity: based on available data, the classification criteria are not met.
- (g) reproductive toxicity: based on available data, the classification criteria are not met.
- (h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.
- (i) specific target organ toxicity (STOT) repeated exposure: based on available data, the classification criteria are not met.
- (j) aspiration hazard: based on available data, the classification criteria are not met.

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Benzyl alcohol:

ROUTES of EXPOSURE: the substance can be absorbed into the body by inhalation of vapours and swallowed.

INHALATION RISK: There are no indications on the speed with which it reaches a damaging contamination in the air for evaporation of the substance at 20° C.

EFFECTS OF SHORT TERM EXPOSURE: the aerosol is irritating to eyes and skin. The substance may cause effects on the nervous system,

EFFECTS OF REPEATED EXPOSURE: long-term repeated or prolonged contact may cause skin sensitization.

HAZARDS/SYMPTOMS

ACUTE INHALATION: Coughing. Vertigo. Headaches.

SKIN: Redness.

EYE: Redness.

SWALLOWED: abdominal pain. Diarrhea. Sleepiness. Nausea. Vomiting.

LD50: 1570 mg/kg bw (oral, rat)

12. Ecological information **

12.1. Toxicity

Use this product according to good working practices. Avoid litter. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

Benzyl alcohol:

EC50: 230 mg/l/48h (Daphnia Magna)

LC50 460 mg/l/96h (Pimephales promelas)

NOEC: 51 mg/l/21 days (Daphnia magna)

12.2. Persistence and degradability:

Benzyl alcohol: Readily biodegradable Deg. 95% (21 days)

12.3. Bioaccumulative potential:

Benzyl alcohol: Log Pow: 1

12.4. Mobility in soil: not available

12.5. Results of PBT and vPvB assessment:

Benzyl alcohol: The substance is non PBT/vPvB

12.6. Other adverse effects: not available

This product doesn't contains AOX

13. Disposal consideration

13.1. Waste treatment methods

Operate following the current Local or National Laws.

The non reclaimed containers have to be disposed as the product.

Consider the possibility of burning the product in a suitable incinerator.

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14. Transport information **

14.1. UN number

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.

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

It is not intended to carry bulk

15. Regulatory information **

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Danger labeling under directives 1272/2008 (EC) and 790/2009 and subsequent amendments.

Regulation	Cas	Substance
Reg. 428/2009 ex Reg. (CE) 1334/2000 All.1	-	-
Reg. (CE) 273/04 Ann I Cat. 1	-	-
Reg. (UE) 1258/2013 (modification Reg (CE) 273/04 Ann. I Cat. 2)	-	-
Reg. (CE) 273/04 Ann I Cat. 3	-	-
Reg. (CE) 1907/2006 Ann. XIV	-	-
Reg. (CE) 1907/2006 Substances SVHC	-	-
Reg. (CE) 1907/2006 Ann. XVII	100-51-6 78330-20-8	Benzyl alcohol(Entry 3) Alcohols, C9-11-iso-, C10-rich, ethoxylated(Entry 3)
2003/105/CE Ann.1 part 1	-	-

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2003/105/CE Ann.1 part 2	-	-
2012/18/UE Ann.1 part 1	-	-
2012/18/UE Ann.1 part 2	-	-

15.2. Chemical safety assessment:

None

16. Other information **

Description of the sentences of risk set out in paragraph 3:

H332 = Harmful if inhaled.

H302 = Harmful if swallowed.

H318 = Causes serious eye damage.

Classification based on data of all components of the mixture

*** Indicates information that has changed from previously issued*

GENERAL BIBLIOGRAPHY:

1. Regulation (EC) 1907/2006 of the European Parliament (REACH)
2. Regulation (EC) 1272/2008 of the European Parliament (CLP) and its amendments and adjustments
3. Regulation (EC) 790 / 2009
4. Regulation (EU) 453/2010
5. Regulation (EU) 830/2015
6. The Merck Index. Ed 10
7. Handling Chemical Safety
8. NIOSH - Registry of Toxic Effects of Chemical Substances
9. INRS - Fiche Toxicologique
10. Patty - Industrial Hygiene and Toxicology
11. NI Sax - Dangerous Properties of Industrial Materials-7, 1989 Edition
12. ADR Directive 2008/68/CE and its amendments and adjustments
13. ECHA Web site <http://echa.europa.eu/web/guest>
14. Directive 2012/18/UE
15. Directive 2009/161/UE

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property. The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

This sheet cancels and substitutes any previous edition.