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**SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY**

**1.1 PRODUCT IDENTIFIER**

Product name: Armal Graffiti Ex

UFI No:

**1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST**

Use of the mixture: Graffiti Remover, Cleaner & Protectant. Industrial Use.

Use advised against: All other uses. Not for general public use.

**1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET**

Name of the supplier: ARMAL, INC.  
122 Hudson Industrial Drive  
Griffin, GA 30224  
Telephone: 770-491-6410  
E-mail:armal-inc@armal.us

**1.4 EMERGENCY TELEPHONE NUMBER**

+011 352-323-3500 (24/7)

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**SECTION 2: HAZARDS IDENTIFICATION**

**2.1 CLASSIFICATION OF SUBSTANCE OR MIXTURE**

Emergency Overview

OSHA Hazards: Combustible Liquid, Irritant

GHS Classification:

Flammable Liquid (Category 4)  
Acute toxicity, Oral (Category 5)  
Skin corrosion, irritation (Category 3)  
Serious eye damage/irritation (Category 2B)  
Acute toxicity, Inhalation (Category 5)

**2.2 LABEL ELEMENTS:**

Pictogram



Signal Word: WARNING



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Hazard Statement(s)

H227 Combustible Liquid  
H303 May be harmful if swallowed  
H316 Causes mild skin irritation  
H320 Causes eye irritation  
H333 May be harmful if inhaled

Precautionary Statement(s) Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
P264 Wash hands thoroughly after handling  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statement(s) Response

P304+312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P332 + 313 IF SKIN irritation occurs: Get medical advice/attention.  
P305 + 351 + 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + 313 IF eye irritation persists: Get medical advice/attention.  
P370+378 In case of fire: Use dry chemical or CO for extinction.  
P403+235 Store in a well-ventilated place. Keep cool.

Precautionary Statement(s) Disposal

P501 Dispose of contents/container in accordance with Federal, State and Local Regulations

2.2 OTHER HAZARDS

Inhalation: Spray or Mist may cause respiratory irritation.  
Skin Contact: This product causes irritation to skin. Prolonged or repeated contact may worsen irritation.  
Eye Contact: Contact can cause moderate to severe irritation and possible injury to the eyes.  
Ingestion: This product is harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

3.2 SUBSTANCES

The product is a mixture.

3.3 MIXTURES

Substance name	CAS No	EC No	REACH registration No	Conc. % (w/w)	Classification according to Regulation No 1272/2008 (CLP)
Trade Secret 24				10-20	Acute Tox. 4 (oral); H302 Eye Irrit. 2; H319
Trade Secret 33				10-20	Non-Hazardous



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Trade Secret 16				5-10	Acute Tox. 4; H302 (oral) Eye Dam. 1; H318
Ethanol				5-10	Flam. Liq. 2; H225

**\* Substance with workplace exposure limits, see section 8.**  
**For the full text of the H-Statements mentioned in this Section, see Section 16.**

Other components are present which are not classified.

**SECTION 4. FIRST AID MEASURES**

**4.1 DESCRIPTION OF FIRST AID MEASURES**

**IN EYES:** Immediately flush eyes with water for 15 minutes. Remove contact lenses and continue flushing. Seek medical attention if irritation persists.

**SWALLOWED:** DO NOT induce vomiting. Give 3-4 glasses of water. Seek medical attention immediately.

**ON SKIN:** Always wash skin after contact with soap and water. If irritation persists get medical attention.

**INHALED:** Move to fresh air. If cough or other respiratory symptoms develop, seek medical attention.

**4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

**EFFECTS OF OVEREXPOSURE:** Irritation to eyes, skin, respiratory and digestive systems.  
**MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:** NE

**4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED - N/A**

**SECTION 5. FIRE FIGHTING MEASURES**

**5.1 EXTINGUISHING MEDIA:** Dry chemical, CO.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Not considered to be a fire or explosion hazard.

**5.2 SPECIAL HAZARDS ARISING FROM SUBSTANCE / MIXTURE**  
 Use standard procedures.

**5.3 ADVICE FOR FIREFIGHTERS:** Wear self-contained breathing apparatus to fight fires.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:**  
 Wear skin and eye protection during cleanup.

**6.2 ENVIRONMENTAL PRECAUTIONS:** Protect from extreme heat and cold.

**6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:**  
 Contain spill and dilute with clear water; large spills should be absorbed on inert material for deep burial.

**6.4 REFERENCE TO OTHER SECTIONS**

Refer to sections 8 and 13

**SECTION 7. HANDLING AND STORAGE****7.1 PRECAUTIONS FOR SAFE HANDLING:**

Do not get into eyes, on skin, or on clothing. Concentrate is corrosive to eyes and can cause skin irritation. May cause permanent eye damage if not removed promptly. Harmful or fatal if swallowed. Wear protective gloves and goggles when handling. Avoid breathing in concentrated vapors. **KEEP OUT OF REACH OF CHILDREN.**

**7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:**

Store in original shipping containers. Keep closed when not in use. Shelf life: 1 year. Protect from extreme heat and cold. Store in a dry area. Read and follow all directions.

**7.3 SPECIFIC END USE(S):****FOR INDUSTRIAL USE ONLY.****SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 CONTROL PARAMETERS**

Where listed, National Occupational Exposure limits (OEL) applicable in EU, Germany, Latvia, Romania and Switzerland for:

Substance Country	Limit value – Eight hours		Limit value – Short term	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
ethanol 64-17-5 Germany	500	960	-	-

(1) 15 minutes average value (2) Inhalable fraction and vapour  
There are other values in some EU countries.

**8.2 EXPOSURE CONTROLS****8.2.1 Appropriate Engineering Control Measures:****HAND PROTECTION:**

Wear gloves EN 374-3. Suggested material: neoprene, nitrile rubber.

**EYE PROTECTION:**

Wear eye protection EN 166 (safety glasses with side shield, goggles or face shield). Eye wash fountain is recommended.

**SKIN PROTECTION:**

Wear suitable protective clothing.

**RESPIRATORY PROTECTION:**

In case of inadequate ventilation or if exposure limits may be exceeded, wear suitable respiratory protection.

**THERMAL HAZARDS:**

See Sections 6 and 7.

**HYGENIC PRACTICES:**

Handle in accordance with good professional hygiene and safety practice. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.

**ENVIRONMENTAL EXPOSURE CONTROLS:**

Avoid release to the environment other than via the advised use of the product.

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**SECTION 9. PHYSICAL/CHEMICAL PROPERTIES****9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

Physical state	Liquid
Colour	Pale Green
Odour	Pleasant fragrance
Melting point/freezing point	No data available
Boiling/initial point and boiling range	No data available
Flammability	Non flammable
Lower and upper explosion limit	No data available
Flash point	Approx 65 °C
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	Near Neutral
Kinematic viscosity	No data available
Solubility	Soluble in water
Partition coefficient n-octanol/water	No data available
Vapour pressure	No data available
Density and/or relative density	No data available
Relative vapour density	No data available
Particle characteristics	No data available

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**SECTION 10. STABILITY AND REACTIVITY****10.1 REACTIVITY**

No dangerous reactions known under normal conditions of use recommended in section 7.

**10.2 CHEMICAL STABILITY**

Stable under recommended handling and storage conditions (see Section 7).

**10.3 POSSIBILITY OF HAZARDOUS REACTIONS**

Under handling and storage conditions recommended in section 7, no hazardous reaction.  
May react with strong oxidizing agents and reducing agents, acids, and alkalis.

**10.4 INCOMPATIBLE MATERIALS**

Will react with peroxide, phenol, strong acids, amines and strong oxidizing agents.

**10.5 HAZARDOUS DECOMPOSITION PRODUCTS**

No data available

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**SECTION 11. TOXICOLOGICAL INFORMATION****11.1 INFORMATION ON TOXICOLOGICAL EFFECTS**

No experimental test data are available on the mixture. The product has been classified based on the hazards of the known components.

**ACUTE TOXICITY:**

Based on available data, harmful if swallowed.

Substance	CAS No	Acute toxicity (rats)
Alcohols C9-11, ethoxylated	68439-46-3	LD50 (oral): 300 – 2 000 mg/kg bw

**SKIN CORROSION/IRRITATION:**

Based on available data, causes severe skin burns.

Substance	CAS No	Result
Alcohols C9-11, ethoxylated	68439-46-3	Not skin irritant.



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### SERIOUS EYE DAMAGE/IRRITATION:

Based on available data, causes serious eye damage.

Substance	CAS No	Result
Alcohols C9-11, ethoxylated	68439-46-3	Causes serious eye damage.

### RESPIRATORY OR SKIN SENSITIZATION:

Based on available data, may cause an allergic skin reaction

Substance	CAS No	Result
Alcohols C9-11, ethoxylated	68439-46-3	Not a skin sensitizer.

### GERM CELL MUTAGENICITY:

Based on available data, the classification criteria are not met.

### CARCINOGENICITY:

Based on available data, the classification criteria are not met.

### REPRODUCTIVE TOXICITY:

Based on available data, the classification criteria are not met.

### STOT-SINGLE EXPOSURE:

Based on available data, the classification criteria are not met.

### STOT-REPEATED EXPOSURE:

Based on available data, the classification criteria are not met.

### ASPIRATION HAZARD:

Based on available data, the classification criteria are not met.

### 11.2 INFORMATION ON OTHER HAZARDS

Endocrine disrupting properties:

The mixture does not contain substances identified to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 TOXICITY

No experimental test data are available on the mixture. The product has been classified based on the hazards of the known components. Based on available data, the product is toxic to aquatic life with long lasting effects (chronic).

Substance	CAS No	Result
Alcohols C9-11, ethoxylated	68439-46-3	NC/EC/IC50 > 1 mg/l

### 12.2 PERSISTENCE AND DEGRADABILITY

Substance	CAS No	Result

### 12.3 BIOACCUMULATIVE POTENTIAL

Not established.

### 12.4 MOBILITY IN SOIL

Not applicable to mixtures.

### 12.5 RESULTS OF PBT AND vPvB ASSESSMENT

Not applicable to mixtures. No PBT/vPvB substances in the mixture.



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### 12.6 ENDOCRINE DISRUPTING PROPERTIES

The mixture does not contain substances identified to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 OTHER ADVERSE EFFECTS

No other relevant information available.

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 WASTE TREATMENT METHODS

Dispose of in accordance with all appropriate governmental and local regulations. Avoid release to the environment other than via the advised use of the product.

## SECTION 14. TRANSPORT INFORMATION

14.1 DOT: Not regulated as a hazardous material.

Sea transport IMDG/GGVSee: Not regulated as a hazardous material.

## SECTION 15. REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

This Safety Data Sheet is provided in compliance with EU REACH Regulation No 1907/2006 as amended by Regulation (EU) 2020/878.

### CHEMICAL SAFETY ASSESSMENT:

No Chemical Safety Assessment has been carried out.

## SECTION 16. OTHER INFORMATION

This Safety Data Sheet replaces any previous version.

<u>Version</u>	<u>Comment</u>	<u>Date</u>
1.0	First Edition	July 2005

ACRONYMNS: NE: not established; N/A: not applicable

The information accumulated herein is believed to be accurate but is not warranted. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

15.1