

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Image Armor CLEANING SOLUTION  
Product code : IACL001QT / IACL001G / IACL005G / IACL055G / IACL275G

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

Use of the substance/mixture : Pretreatment Cleaning Solution Mixture

#### 1.3. Details of the supplier of the safety data sheet

**Manufacturer:**

Image Armor, LLC  
220 First Dr. NE  
New Philadelphia, OH 44663 - USA  
Tel: +1-877-673-4377  
Email: info@imagearmorpt.com

#### 1.4. Emergency telephone number

Emergency number : Manufacturer:  
+1-877-673-4377 9:00 am – 5:00pm Monday – Friday EST-Eastern Standard Time  
For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident Call CHEMTREC Day or Night  
Within USA and Canada: +1-800-424-9300  
Outside USA and Canada: +1-703-527-3887 (collect calls accepted)

### SECTION 2: Hazards identification

**EMERGENCY OVERVIEW:** Caution!

**Product Description:** This product is a transparent green liquid with a mild "clean" odor.

**Health Hazards:** May cause eye and/or skin irritation. Inhalation of vapour or mist may cause respiratory irritation.

**Flammability Hazards:** Non-Flammable

**Reactivity Hazards:** This product is not reactive.

**Environmental Hazards:** Release of this product is not expected to cause significant adverse effects to the aquatic environment.

**Emergency Recommendations:** Emergency responders must have personal protective equipment and fire protection appropriate for the situation to which they are responding.

**EU LABELING AND CLASSIFICATION:** This product meets the definition of a hazardous substance or preparation according to EU Regulation (EC) NO 1272/2008

**INDEX NUMBER:**

**EC# 231-791-2** This substance is not classified in the Annex I of Directive 67/548/EEC

**CAS# 164462—16-2** is not listed in ESIS

**Ethoxylated Alcohol** is a proprietary ingredient and is not listed in Annex 1 of Directive 67/548/EEC

**EC# 229-912-9 Annex I – Index# 014-010-00-8**

#### 2.1. Classification of the substance or mixture

**GHS-US classification**

Acute Oral Toxicity Category 5  
Skin Corrosive Category 2  
STOT SE Category 1B

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### 2.2. Label elements

#### GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H303 – May be harmful if swallowed  
H315 – Causes skin irritation  
H335 – May cause respiratory irritation H318 - Causes serious eye damage

Precautionary statements (GHS-US) : P264 – Wash hands thoroughly after handling  
P271 – Use in well ventilated areas  
P280 – Wear protective gloves/protective clothing/eye protection/face protection

Response statements (GHS-US) : P302 + P352 – IF ON SKIN: Wash with plenty of soap and water  
P305 + P351 – IF IN EYES: Rinse cautiously with water several minutes  
P333 + P313 – IF skin irritation or rash occurs : Get medical advise/attention

#### HEALTH EFFECTS OR RISKS FROM EXPOSURE:

##### ACUTE:

INHALATION: Mist of vapour may cause irritation to the respiratory tract.

SKIN: Prolonged contact may cause skin irritation. Exposure can cause redness, itching and inflammation.

EYES: Contact causes eye irritation. Exposure may cause tearing, redness and discomfort.

INGESTION: Not expted to be an ingestion hazard for intended use. Exposure may cause nausea, comiting, diarrhea and other systemic effects.

**CHRONIC:** None known

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS-US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

Full text of H-phrases: see section 16

### 3.2. Mixture

Name	Product identifier	EINECS #	WT%	Hazard Classification	Risk Phrases
Water	(CAS No) 7732-18-5	231-791-2	90-97%	NONE	NONE
Trisodium Salt	164462-16-2	Not Listed	1-3%	[C] Corrosive	R22, R41
Ethoxylated Alcohol	Proprietary	Not Listed	1-3%	[Xn] Harmful, [Xi] Irritant	R22, R38
Sodium Metasilicate Pentahydrate	6834-92-0	229-912-9	1-3%	[C] Corrosive	R34

Blanace of other ingredients is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250:2000

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest. In all cases of doubt, or if victim feels unwell seek medical attention. If necessary, use artificial respiration to support vital functions. SEEK IMMEDIATE MEDICAL ATTENTION.

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First-aid measures after skin contact	: Wipe off excess material and wash exposed skin with mild soap and water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Do not rub the skin and eyes after direct contact with the product. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Have contaminated individual "roll" eyes to ensure complete washing. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FORMOST CURRENT INFORMATION. Do not induce vomiting. Never induce comiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or unable to swallow. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: In the event of insufficient ventilation: In case of repeated or prolonged exposure : Inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Nausea.
Symptoms/injuries after skin contact	: Frequent or prolonged contact with skin may cause dermal irritation, redness or dry skin.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: Unlikely route of exposure.

### 4.3. Indication of any immediate medical attention and special treatment needed

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Individuals with pre-existing skin may be more susceptible to effects of this material.

**RECOMMENDATIONS TO PHYSICIANS:** Treat symptoms and eliminate overexposure.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Use fire extinguishing methods listed below: Water Spray: Yes Foam: Yes Carbon Dioxide: Yes Dry Chemical: Yes Halon: Yes Other: Any "C" Class
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### 5.2. Special hazards arising from the substance or mixture

Explosion Sensitivity to Mechanical Impact: NO
Explosion Sensitivity to Static Discharge: NO

### 5.3. Advice for firefighters

<b>Firefighting instructions</b>	: Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.
<b>Protective equipment for firefighters</b>	: Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment.
<b>Flash Point: Not Applicable</b>	: Flash Point: Not Applicable
<b>Autoignition Temperature:</b>	Not Applicable
<b>Flammable Limits (in air by volume, %)</b>	Lower NA Upper NA

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Provide adequate ventilation to minimize dust and/or vapour concentrations. Stop leak if safe to do so. Avoid breathing dust, mist or spray. Avoid generation of dust.
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#### 6.1.1. For non-emergency personnel

Protective equipment	: Wear suitable protective clothing gloves, and eye/face protection. For further information refer to section 8 : Exposure-controls/personal protection.
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Emergency procedures : Evacuate unnecessary personnel.

### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Evacuate Unprotected personnel from the area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in section 8. Contain and recover if possible. Cover or absorb spilled liquid with sand, earth or other inert material. Clean up spill immediately and place in appropriate containers. U.S. Regulations (CERCLA) requires reporting spills and releases to soil, water and air in excess of reportable quantities.

Disposed of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Keep out of reach of children. Provide adequate ventilation. Avoid contact with skin and eyes. Avoid breathing (dust, vapor, mist, gas). Avoid generation of dust. Keep container tightly closed. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly with soap and water after handling. Remove contaminated clothing immediately.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : A washing facility/water for eye and skin cleaning purposes should be present. Provide adequate ventilation to minimize vapor/mist concentrations.

Storage conditions : Keep out of reach of children. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Store tightly closed in a dry, cool and well-ventilated place.

Incompatible materials : Strong acids, bases. Strong oxidizing agents. Strong reducing agents.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.

Personal protective equipment : Avoid all unnecessary exposure. Use personal protective equipment as required. The following pictograms represent the minimum requirements for personal protective equipment. Gloves. Protective goggles. Protective clothing.



Hand protection : Wear chemically-resistant protective gloves when handling this product.

Eye protection : Wear chemical splash goggles. Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles. If necessary, refer to U.S. OSHA 29 CFR 1910.13, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

Skin and body protection : Long sleeved protective clothing appropriate for the task (i.e. lab coat, overalls).

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Respiratory protection	: The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If user operations generate dust or fumes. In fine dispersion/spraying/misting: An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits.
Environmental exposure controls	: Avoid release to the environment.
Other information	: Do not eat, drink or smoke during use. Avoid all unnecessary exposure.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear, light green.
Colour	: Clear, light green.
Odour	: Mild "clean" odor.
Odour threshold	: No data available
pH	: <12.5
Relative evaporation rate (butylacetate=1)	: <1
Melting point	: <1°C (<30°F)
Freezing point	: <1°C (<30°F)
Boiling point	: 100°C (212°F)
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 17mm Hg @ 20°C (68°F)
Relative vapour density at 20 °C	: 3.2
Relative density	: No data available
Solubility	: Water: completely soluble
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under conditions of normal storage and use.

#### 10.2. Chemical stability

Stable under normal conditions of use.

#### 10.3. Possibility of hazardous reactions

Will not occur.

#### 10.4. Conditions to avoid

Extremely high or low temperatures. Prevent physical damage to package. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks, heat, or other potential ignition sources. Incompatible materials.

#### 10.5. Incompatible materials

Strong acids. Strong oxidizing agents. Strong Reducing agents.

#### 10.6. Hazardous decomposition products

Hazardous decomposition products may be released during prolonged heating like carbon oxides, and sodium oxides.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity	: No data available for this product.
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: None of the components of this product are listed as carcinogen or suspected .
Reproductive toxicity	: Not considered a reproductive hazard.
	Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	: Not classified
	Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
	Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: In the event of insufficient ventilation: In case of repeated or prolonged exposure : Inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Nausea.
Symptoms/injuries after skin contact	: Frequent or prolonged contact with skin may cause dermal irritation, redness or dry skin.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: Unlikely route of exposure.

### SECTION 12: Ecological information

#### 12.1. Toxicity

All work practices must be aimed at eliminating environmental contamination.

#### 12.2. Persistence and degradability

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Persistence and degradability	Not established.

#### 12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

**Chemical Effect on Plants, Animals and Aquatic Life:** : This product is non-toxic and biodegradable.

**Environmental Stability:** No data are available on the adverse effects of this material on the environment. This product is biodegradable. None of the ingredients in this mixture are classified as a Marine Pollutant.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Ensure all national/local regulations are observed.
Additional information	: Do not re-use empty containers.
Ecology - waste materials	: This product is non-toxic and biodegradable.

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### SECTION 14: Transport information

In accordance with DOT

No dangerous good in sense of transport regulations

#### Additional information

Other information : No supplementary information available.

This product is not hazardous for ground or air transportation.

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### International Transport Regulations

Regulatory information	UN Number	Proper Shipping Name	Classes	PG*	Label	Additional information
DOT Classification	Not Regulated					
TDG Classification	Not Regulated					
IMDG Class	Not Regulated					
IATA-DGR Class	Not Regulated					

PG\*: Package Group

Exemption to the above classification may apply AERG: Not Available

#### ADR

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

**U.S. SARA REPORTING REQUIREMENTS:** The components of this product area not subject to the reporting requirements of Sections 302, 304, and 313 or Title III of the Superfund Amendments and Reauthorization Act.

**Section 313 Toxic Release Inventory (40 CFR 372):** None

**U.S. SARA Threshold Planning Quantity:** There is no specific Threshold Planning Quantities for the components of this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

**U.S. CERCLA Reportable Quantity (RQ):** None

**U.S. TSCA Inventory Status:** The components of this product are listed on the TSCA Inventory or are exempted from listing.

Other U.S. Federal Regulations: None

#### STATE REGULATIONS:

**STATE RIGHT TO KNOW LISTS:** None

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):** Ingredients within this product are not on the Proposition 65 lists.

#### 15.2. International regulations

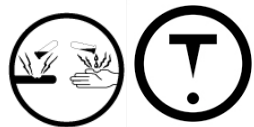
##### CANADA

**CANADIAN DSL/NDL INVENTORY STATUS:** The components of this product are on the DSL Inventory, or are exempted from listing.

**OTHER CANADIAN REGULATIONS:** Not applicable.

**CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:**

**CANADIAN WHMIS CLASSIFICATION and SYMBOLS:** Class E Corrosive, Class D Division 2 Materials causing other toxic effects



#### EU-Regulations

**EU LABELING AND CLASSIFICATION :** This product meets the definition of the following hazard class as defined by the European Economic Community Guidelines.

- EU CLASSIFICATION :** [C] Corrosive, [Xn] Harmful
- EU RISK PHRASES :** R22 : Harmful if swallowed ; R34 : Causes burns ; R36/38 : Irritating to eyes and skin.
- EU SAFETY PHRASES :** S20/21 : When using do not eat, drink or smoke ; S24/25 : Avoid contact with skin and eyes ; S36/37 : Wear suitable protective clothing and gloves ; S39 : Wear suitable eye/face protection.





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### AUSTRALIAN INFORMATION FOR PRODUCT:

The components of this product are not listed on the International Chemical Inventory Lists

### JAPANESE INFORMATION FOR PRODUCT:

- **JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS:** The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.
- **JAPANESE ENCS INVENTORY:** The components of this product are on the ENCS Inventory as indicated in the section on International Chemical Inventories, below.
- **POISONOUS AND DELETERIOUS SUBSTANCES CONTROL LAW:** No component of this product is a listed Specified Poisonous Substance under the Poisonous and Deleterious Substances Control Law.

### INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

- Asia-Pac : Not Listed
- Australian Inventory of Chemical Substances (AICS) : Listed
- Korean Existing Chemicals List (ECL) : Listed
- Japanese Existing National Inventory of Chemical Substances (ENCS) : Listed
- Phillipines Inventory of Chemicals and Chemical Substances (PIICCS) : Listed
- Swiss Giftlieste List of Toxic Substances : Listed
- U.S. TSCA : Listed

#### 15.2.2. National regulations

##### Nitric acid, ammonium calcium salt (15245-12-2)

Listed on the Korean ECL (Existing Chemical List) inventory.  
Listed on New Zealand - Inventory of Chemicals (NZIoC)

#### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

Other information : None.

Date of Printing: January 1, 2015

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. Image Armor, LLC assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, Image Armor, LLC assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*