

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

1.1. Product identifier

Product form : Mixture
 Trade name : Image Armor ULTRA Dark Shirt Formula
 Product code : IAUD001QT / IAUD001G / IAUD005G / IAUD055G / IAUD275G

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

Use of the substance/mixture : Pretreatment for Direct to Garment Printing

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

2.1. Classification of the substance or mixture

GHS-US classification

Eye Dam. 1 H318

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



GHS05

Signal word (GHS-US) : Danger
 Hazard statements (GHS-US) : H318 - Causes serious eye damage
 Precautionary statements (GHS-US) : P280 - Wear eye protection, protective clothing, protective gloves
 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/physician

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

Image Armor ULTRA Dark Shirt Formula

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according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Name	Product identifier	%	GHS-US classification
Nitric acid, ammonium calcium salt	(CAS No) 15245-12-2	3 - 20	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

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.
- First-aid measures after skin contact : Wipe off excess material and wash exposed skin with mild soap and water. 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. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Give water to drink if victim completely conscious/alert. 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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use fire-extinguishing media appropriate for surrounding materials. Flood with plenty of water.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Evacuate personnel to a safe area.
- Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection. Wear approved self-contained breathing apparatus (set on positive pressure mode).
- Other information : Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide, nitrogen oxides (NO_x). Toxic metal oxide smoke.

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.

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.
- 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.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Contain and/or absorb spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Residue may be washed down with water. Ensure all national/local regulations are observed. Dispose of contents/container to comply with applicable local, national and international regulations.

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.

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 protective gloves.

Eye protection : Wear chemical splash goggle. 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.

Skin and body protection : Long sleeved protective clothing.

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 : Milky white.

Colour : White.

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Odour	: Odourless.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 93 °C (> 200 F)
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
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

No additional information available

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No additional information available

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.

10.5. Incompatible materials

Strong acids, bases. Strong oxidizing agents. Strong Reducing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide. Nitrogen oxides (NOx). Metal oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

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

LD50 oral rat	2000 mg/kg
ATE (oral)	2000,000 mg/kg bodyweight

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Not classified

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Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified
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

No additional information available

12.2. Persistence and degradability

Image Armor DARK Shirt Formula	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Image Armor DARK Shirt Formula	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

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	: Avoid release to the environment.

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

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Image Armor ULTRA Dark Shirt Formula

WHMIS Classification

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

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

Listed on Non-Domestic Substances List (NDSL)

EU-Regulations

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

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Eye Dam. 1 H318

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

Xi; R41

Full text of R-phrases: see section 16

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

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SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H302	Harmful if swallowed
H318	Causes serious eye damage

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