

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Printing date 07/01/2015

Reviewed on 07/01/2015

1 Identification

- · Product identifier
- Tradename:ImageArmorULTRADarkShirtFormula
- · Relevant identified uses of the substance or mixture and uses advised against

Image Armor ULTRA is used to pretreat fabrics prior to direct garment printing.

- Product description Image Armor ULTRA is used to pretreat fabrics prior to direct garment printing.
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Image Armor, LLC

220 First Dr. NE

New Philadelphia, OH 44663

Phone: 877-673-4377 Fax: 330-2676-7437 www.imagearmorpt.com

Emergency telephone number: 877-673-4377

2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

STOT SE 2 H371-H335 May cause damage to organs. May cause respiratory irritation.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2B H320 Causes eye irritation.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms





GHS07 GHS08

- · Signal word Warning
- · Hazard-determining components of labeling:

Ethyl alcohol

Trade Secret

methanol

· Hazard statements

Causes skin and eye irritation.

May cause damage to organs. May cause respiratory irritation.

· Precautionary statements

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear protective gloves.

Wash thoroughly after handling.



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Printing date 07/01/2015

Reviewed on 07/01/2015

Trade name:Image Armor U LTRA Dark Shirt Formula

Do not eat, drink or smoke when using this product.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

If on skin: Wash with plenty of water.

IF exposed or concerned: Call a poison center/doctor.

Take off contaminated clothing and wash it before reuse.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- NFPA ratings (scale 0 4)



Health = 2 Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = *2 Fire = 0 Reactivity = 0

Hazard(s) not otherwise classified (HNOC): None known

3 Composition/information on ingredients

CAS: 7732-18-5	water, distilled, conductivity or of similar purity	60-90%
RTECS: ZC 0110000		

- · Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous Compone	Dangerous Components:		
CAS: 64-17-5	Ethyl alcohol	15-35%	
RTECS: KQ 6300000	♦ Flam. Liq. 2, H225; ♦ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320		
	Trade Secret	16%	
	♦ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320		
CAS: 67-56-1	methanol	2-12%	
RTECS: PC 1400000	♦ Flam. Liq. 2, H225; ♦ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ♦ STOT SE 1, H370		
CAS: 142-82-5	Heptane	≤ 2.5%	
RTECS: MI 7700000	♦ Flam. Liq. 2, H225; ♦ Asp. Tox. 1, H304; ♦ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ♦ Skin Irrit. 2, H315; STOT SE 3, H336		

· Additional information:

Trade Secret made in accordance with paragraph (i) of 1910.1200 of 29 CF 1910.1200, the OSHA Communication Standard

(Contd. on page 3)



Printing date 07/01/2015

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

· ·

Trade name:Image Armor ULTRA Dark Shirt Formula

Reviewed on 07/01/2015

4 First-aid measures

· Description of first aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.

In case of unconsciousness, place patient securely on side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

· After eve contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Immediately call a doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed: No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- · *Environmental precautions:* No special measures required.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (ie. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires: No special measures required.

(Contd. on page 4)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Printing date 07/01/2015

Reviewed on 07/01/2015

Trade name: Image Armor ULTRA Dark Shirt Formula

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:

Store in a dry, cool and well ventilated space away from heat and flame.

- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters

· Com	· Components with occupational exposure limits:					
64-1	64-17-5 Ethyl alcohol					
PEL	Long-term value: 1900 mg/m³, 1000 ppm					
REL	Long-term value: 1900 mg/m³, 1000 ppm					
TLV	Short-term value: 1880 mg/m³, 1000 ppm Upper Respiratory Tract irritation					
67-5	67-56-1 methanol					
PEL	Long-term value: 260 mg/m³, 200 ppm					
REL	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin					
TLV	Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Skin; BEI, headache, nausea, dizziness, eye damage					

· Ingredients with biological limit values:

67-56-1 methanol

BEI 15 mg/L

urine

end of shift

Methanol (background, nonspecific)

- · Additional information: The lists that were valid during the creation of this SDS were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- Breathing equipment: Not required.
- Protection of hands:





OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Printing date 07/01/2015 Reviewed on 07/01/2015

Trade name:Image Armor ULTRA Dark Shirt Formula

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Eye protection:



Safety glasses

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information

· Appearance:

Form: Liquid

Color:

Odor:

Odor threshold:

Not determined.

Not determined.

Not determined.

Change in condition

Melting point/Melting range:
Boiling point/Boiling range:

Flash point:

Not determined.
64 °C (147 °F)

Not determined

Not determined

Not applicable.

· Ignition temperature:

Decomposition temperature: Not determined.

· **Auto igniting:** Product is not self-igniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapor

mixtures are possible.

• Explosion limits:

Lower: Not determined. Not determined.

Vapor pressure @ 20 °C (68 °F): 59 hPa (44 mm Hg)

· Density:

Relative densityNot determined.Vapor densityNot determined.Evaporation rateNot determined.

(Contd. on page 6)



Printing date 07/01/2015

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Trade name:Image Armor ULTRA Dark Shirt Formula

Reviewed on 07/01/2015

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

· Solvent content:

 Organic solvents:
 18.6 %

 Water:
 65.0 %

 VOC content:
 18.6 %

 Solids content:
 13.0 %

• Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability Stable under normal conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

Acute tox				
· LD/LC50 values that are relevant for classification:				
64-17-5 Ethyl alcohol				
Oral	LD50	7060 mg/kg (rat) Remarks: Lungs, Thorax, or Respiration: Other changes. Carcinogenicity - Mouse - Oral Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Liver: Tumors Blood: Lymphomas including Hodgkin's disease. Central nervous system depression, narcosis, Damage to the heart., To the bes of our knowledge, the chemical, physical, and toxicological properties have no been thoroughly investigated. Heart - Irregularities - Based on Human Evidence Central nervous system - Breathing difficulties - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence		
Inhalative	LC50/4 h LC50/96 hours	20000 mg/l (rat) 12900-15300 mg/l (Trout)		
15245-12-2 Calcium Nitrate				
Oral	LD50	>2100 mg/kg (rat)		
67-56-1 methanol				
Oral	LD50	5628 mg/kg (rat)		
Dermal	LD50	15800 mg/kg (rabbit)		
Inhalative	LC50/4 h	128.2 mg/l (rat)		

(Contd. on page 7)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Printing date 07/01/2015

Reviewed on 07/01/2015

Trade name:Image Armor ULTRA Dark Shirt Formula

LC50/96 hours | 15400 mg/l (Trout)

- Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- on the eye:

Irritating effect.

Causes serious eye irritation.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

- · Carcinogenic categories
- IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

· NTP (National Toxicology Program)

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity:

64-17-5 Ethyl alcohol

EC50 34900 mg/l (daphnia)

67-56-1 methanol

EC50 22000 mg/l (Green algae)

10000 mg/l (daphnia)

- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes: Generally not hazardous for water
- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB**: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.

- Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

(Contd. on page 8)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Printing date 07/01/2015 Reviewed on 07/01/2015

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4 Transport information

· UN-Number

· DOT, ADR, ADN, IMDG, IATA Non-Regulated Material

· UN proper shipping name

DOT, ADR, ADN, IMDG, IATA Non-Regulated Material

· Transport hazard class(es)

· DOT, ADR, ADN, IMDG, IATA

· Class Non-Regulated Material

· Packing group

· DOT, ADR, IMDG, IATA Non-Regulated Material

· Environmental hazards: Not applicable. Special precautions for user Not applicable.

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

· DOT

· Quantity limitations On passenger aircraft/rail: On cargo aircraft only:

· UN "Model Regulation":

5 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

67-56-1 methanol

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- California Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

64-17-5 Ethyl alcohol

67-56-1 methanol

· Carcinogenic categories

· EPA (Environmental Protection Agency)

142-82-5 Heptane

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(Contd. on page 9)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Printing date 07/01/2015

Reviewed on 07/01/2015

Trade name:Image Armor ULTRA Dark Shirt Formula

· TLV (Threshold Limit Value established by ACGIH)		
	64-17-5 Ethyl alcohol	A3
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
	None of the ingredients are listed.	

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms





GHS07 GHS08

· Signal word Warning

· Hazard-determining components of labeling:

Ethyl alcohol Trade Secret methanol

· Hazard statements

Causes skin and eve irritation.

May cause damage to organs. May cause respiratory irritation.

Precautionary statements

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear protective gloves.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

If on skin: Wash with plenty of water.

IF exposed or concerned: Call a poison center/doctor.

Take off contaminated clothing and wash it before reuse.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations: The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances. State Right to Know CAS: 7732-18-5 water, distilled, conductivity or of similar purity 60-90% RTECS: ZC 0110000 CAS: 64-17-5 Ethyl alcohol 15-35% RTECS: KQ 6300000 ♠ Flam. Lig. 2, H225; ♠ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. ŽB, H320 Trade Secret 16% ① Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320

(Contd. on page 10)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

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CAS: 67-56-1 RTECS: PC 1400000	methanol Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370	2-12%
CAS: 141-78-6 RTECS: AH 5425000	Ethyl acetate The Flam. Liq. 2, H225; The Eye Irrit. 2, H319; STOT SE 3, H336	≤ 2.5%
CAS: 142-82-5 RTECS: MI 7700000	Heptane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	≤ 2.5%
All ingredients are liste	·	

[·] Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- · Date of preparation / last revision 07/01/2015 / 4
- Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Acute Tox. 3: Acute toxicity, Hazard Category 3

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B

STOT SE 1: Specific target organ toxicity - Single exposure, Hazard Category 1

STOT SE 2: Specific target organ toxicity - Single exposure, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

* * Data compared to the previous version altered.

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