

MATERIAL SAFETY DATA SHEET

MSDS UPDATE: 06/1/2014 IMAGE ARMOR DTG INK CLEANING SOLUTION

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1. PRODUCT AND COMPANY IDENTIFICATION

Company Identification

Image Armor, LLC 220 First Dr. NE

New Philadelphia, OH 44663 Telephone: 877.673.4377

Product Identification

PRODUCT NAME Image Armor DTG Ink

Cleaning Solution

CHEMICAL NAME Ink Jet Cleaning Fluid

Emergency Telephone Number - USA

Call Chemtrec (24h phone number): Within USA and Canada: +1-800-424-9300

Outside USA and Canada: +1-703-527-3887 (collect calls accepted)

Water Base Solution

CHEMICAL FAMILY

CAS NUMBER Blend

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	<u>Amount</u>	CAS Number	OSHA PEL	ACGIH TLV	Oral LD ₅₀
ETHANE-1, 2-DIOL DIETHYLENE GLYCOL N-BUTYL ETHER	5.0 - 10.0% 1.0 - 5.0%	107-21-1 112-34-5	N/E N/E	100 mg/m³ N/E	-
2-PYRROLIDINONE	1.0 - 5.0%	616-45-5	-	-	> 5.0 g/kg (rat)
TRIS(2-HYDROXYETHYL) AMINE	1.0 - 5.0%	102-71-6	N/E	5 mg/m ³	2.2 g/kg (guineapig)

Remaining ingredients not considered hazardous under the criteria of OSHA Hazard Communication Standard 29CFR 1910.1200

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear to hazy liquid with slight odor. This product presents little or no hazard if spilled, and no unusual hazard if involved in a fire.

EYE May cause slight irritation

SKIN May cause allergic skin reaction
INHALATION May cause irritation if inhaled
INGESTION May be harmful if swallowed
CARCINOGENICITY No known cancer hazard

INFORMATION



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4. FIRST AID MEASURES

EYE CONTACT FIRST AID Immediately flush eyes with plenty of water. Get medical attention if

irritation develops or persists.

SKIN CONTACT FIRST AID Wash with soap and water, get medical attention if irritation develops or

persists, wash clothing before reuse.

INHALATION FIRST AID Although this product is not known to cause respiratory problems, if

breathing is difficult, remove to fresh air and get medical attention.

INGESTION FIRST AID If swallowed, get medical attention.

5. FIRE FIGHTING MEASURES

FLAMABLE PROPERTIES Will not burn

NFPA RATING Health – 1, Flammability – 0, Reactivity – 0, Special Hazards – None

FIRE & EXPLOSION HAZARDS None

FIRE FIGHTING INSTRUCTIONS As in any fire, wear positive pressure self-contained breathing

apparatus and full protective gear.

COMBUSTION PRODUCTS Decomposition may produce oxides of carbon, nitrogen, sulfur,

hydrocarbons, fumes and smoke.

6. ACCIDENTIAL RELEASE MEASURES

SAFEGUARDS Protect skin and eyes from exposure. Wear appropriate personal protective

(PERSONNEL) equipment. If vapors or mists are generated wear a NIOSH approved respirator.

CLEAN UP Absorb spills with inert material (e.g. vermiculite, dry sand or earth), treat or dispose

PROCEDURE of waste material in accordance with all local, state/provincial, and national

requirements.

7. HANDLING AND STORAGE

HANDLING Avoid contact with eyes, skin and clothing, avoid breathing mists, wash hands

(PERSONNEL) thoroughly after handling.

STORAGE Do not store in direct sunlight. Keep from freezing. Keep out of reach of children.

PRECAUTIONS



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS No special ventilation requirements, good general ventilation should be

sufficient to control airborne levels.

EYE / FACE PROTECTION

REQUIREMENTS

Wear safety glasses or goggles if splashing is possible.

SKIN PROTECTION REQUIREMENTS

Avoid unnecessary skin contact, wear gloves and sleeves. Wash hands

thoroughly after handling.

RESPIRATORY PROTECTION

REQUIREMENTS

Under normal use conditions, with adequate ventilation, no special

handling equipment is required.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM Liquid SOLUBILITY IN WATER Miscible

COLOR Clear to hazy MELTING/FREEZING < 0° C

POINT

ODOR Faint Odor pH 8.0 +/- 2.0

BOILING POINT > 100° C % VOLATILES N/E

VAPOR PRESSURE N/E VOLATILE ORGANIC N/E

VAPUR PRESSURI

(kg/cm²)

VAPOR DENSITY N/E

(Air = 1)

COMPOUNDS (VOC)

10. STABILITY AND REACTIVITY

STABILITY Stable

POLYMERIZATION Hazardous polymerization will not occur.

INCOMPATABILITY WITH

OTHER MATERIALS

Incompatible or can react with acids, bases and oxidizers.

DECOMPOSITION In the case of fire, oxides of carbon, nitrogen, hydrocarbons, fumes, and

smoke may be produced.

CONDITIONS TO AVOID None

11. TOXICOLOGICAL INFORMATION

MISCELLANEOUS The components of this product are not listed by the NTP, IARC, or regulated as a

carcinogen by OSHA. Although not tested, may cause minor irritation based on

the ingredients of the product.

12. ECOLOGICAL INFORMATION



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ENVIRONMENTAL HAZARD

No information available.

13. DISPOSAL CONSIDERATION:

WASTE DISPOSAL Treat or dispose of waste in accordance with all local state/provincial and national

requirements.

EWC CODE 080302

14. TRANSPORT INFORMATION

PRODUCT LABEL Image Armor DTG Ink Flushing Solution

MISCELLANEOUS Not a regulated article under DOT, IATA, ADR, or RID.

15. REGULATORY INFORMATION

REGULATORY DISCLOSURES

CALIFORNIA This product contains no chemicals known to the state of California to

PROPOSITION 65 cause cancer, birth defects, or other reproductive harm.

SARA TITLE III, 311/312 This product has been reviewed according to the EPA "Hazard Categories"

promulgated under section 311 and 312 of SARA TITLE III, and is considered,

under applicable definition, to be an immediate/acute health hazard.

EEC SYMBOLS AND None

INDICATIONS OF DANGER

R-PHRASES

R36/38 – Irritating to eyes and skin.

S-PHRASES S24/25 – Avoid contact with skin and eyes.

WHMIS HAZARD SYMBOLS None

MISCELLANEOUS This material or all of its components are listed on the Inventory of Existing

INFORMATION Chemicals Substances under the Toxic Substance Control Act (TSCA).

16. OTHER INFORMATION

HMIS RATING Health – 1, Flammability – 0, Reactivity – 0, Personal Protection Index – 0

ABBREVIATIONS USED IN N/A: Not Available

THIS MSDS N/E : Not Established

ADDITIONAL The data in this Material Safety Data Sheet relates only to the specific INFORMATION material designated herein. It does not relate to use in combination with

any other material or in any process.

The information contained herein is, to the best of our knowledge and belief, accurate. Since the condition of handling and use are beyond our control, we assume no liability for loss or injury resulting from the use of this product or the information herein. All chemicals may present unknown health hazards and should be used with caution. Safe use of this product is the responsibility of the user. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunto with respect to the information contained herein or the product to which the information refers.



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END OF MSDS