

IMAGE ARMOR
SOLUTIONS FOR THE DTG INDUSTRY
MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Company Identification

Image Armor, LLC
220 First Dr. NE
New Philadelphia, OH 44663
Telephone: 877-673-4377

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)

Product Identification

PRODUCT NAME	Image Armor DTG Ink Flushing Solution	CHEMICAL FAMILY	Water Base Solution
CHEMICAL NAME	Ink Jet Cleaning Fluid	CAS NUMBER	Blend

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Oral LD₅₀</u>
ETHANE-1, 2-DIOL	5.0 – 10.0%	107-21-1	N/E	100 mg/m ³	-
DIETHYLENE GLYCOL N-BUTYL ETHER	1.0 – 5.0%	112-34-5	N/E	N/E	-
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 INFORMATION	No known cancer hazard

4. FIRST AID MEASURES

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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
EXTINGUISHING MEDIA	Use extinguishing media appropriate to surrounding fire.
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 (PERSONNEL)	Protect skin and eyes from exposure. Wear appropriate personal protective equipment. If vapors or mists are generated wear a NIOSH approved respirator.
CLEAN UP PROCEDURE	Absorb spills with inert material (e.g. vermiculite, dry sand or earth), treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

7. HANDLING AND STORAGE

HANDLING (PERSONNEL)	Avoid contact with eyes, skin and clothing, avoid breathing mists, wash hands thoroughly after handling.
STORAGE PRECAUTIONS	Do not store in direct sunlight. Keep from freezing. Keep out of reach of children.

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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 POINT	< 0° C
ODOR	Faint Odor	pH	8.0 +/- 2.0
BOILING POINT	> 100° C	% VOLATILES	N/E
VAPOR PRESSURE (kg/cm ²)	N/E	VOLATILE ORGANIC COMPOUNDS (VOC)	N/E
VAPOR DENSITY (Air = 1)	N/E		

10. STABILITY AND REACTIVITY

STABILITY	Stable
POLYMERIZATION	Hazardous polymerization will not occur.
INCOMPATIBILITY 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.
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12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARD	No information available.
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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 PROPOSITION 65 This product contains no chemicals known to the state of California to 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 INDICATIONS OF DANGER None

R-PHRASES R36/38 – Irritating to eyes and skin.

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

WHMIS HAZARD SYMBOLS None

MISCELLANEOUS INFORMATION This material or all of its components are listed on the Inventory of Existing 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 THIS MSDS N/A : Not Available
N/E : Not Established

ADDITIONAL INFORMATION The data in this Material Safety Data Sheet relates only to the specific 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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MSDS UPDATE: 06/1/2015

IMAGE ARMOR DTG INK FLUSHING SOLUTION

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END OF MSDS