

SAFETY DATA SHEET

according to Federal Register

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Water Based Flasher Ink

MSDS166

Revision 0

Revision date 2016-10-06

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

1.1. Product identifier

Product name	Water Based Flasher Ink
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1.2. Relevant identified uses of the substance or mixture and uses advised against

Description	Water based ink with light reflective pigment.
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1.3. Details of the supplier of the safety data sheet

Company	LCR Hallcrest
Address	1911, Pickwick Lane, Glenview, IL 60026, USA
Web	www.hallcrest.com
Telephone	+1 847 998 8580
Fax	+1 847 998 8051
Email	sales@hallcrest.com

Intended use


	Printing of light reflective coatings.
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - EU	Xi; R38 Symbols: Xi: Irritant.
Main hazards	Irritating to skin.
2.1.2. Classification - GHS	Skin Irrit. 2: H315;

2.2. Label elements

Hazard pictograms	
Signal Word	Warning
Hazard Statement	Skin Irrit. 2: H315 - Causes skin irritation.
Precautionary Statement: Prevention	P264 - Wash thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P302+P352 - IF ON SKIN: Wash with plenty of water/ . P321 - Specific treatment (see on this label). P332+P313 - If skin irritation occurs: Get medical advice/attention.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Glass Beads		65997-17-3			40 - 50%	Xi; R38	
Isopropanol	603-117-00-0	67-63-0	200-661-7		1 - 10%	F; R11 Xi; R36 R67	

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Glass Beads		65997-17-3			40 - 50%	Skin Irrit. 2: H315;	
Isopropanol	603-117-00-0	67-63-0	200-661-7		1 - 10%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;	

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	May cause irritation to mucous membranes. Move the exposed person to fresh air.
Eye contact	May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	May cause irritation to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	May cause irritation to mucous membranes. DO NOT INDUCE VOMITING. Seek medical attention if irritation or symptoms persist.

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

Inhalation	No Significant Hazard.
Eye contact	May cause irritation to eyes. Seek medical attention if irritation or symptoms persist.
Skin contact	May cause irritation to skin. Rinse immediately with plenty of water.
Ingestion	If you feel unwell, seek medical advice (show the label where possible).

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

Inhalation	No Significant Hazard.
Eye contact	May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	No Significant Hazard. Rinse immediately with plenty of water. Seek medical attention if irritation or symptoms persist.
Ingestion	If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area.
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6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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6.3. Methods and material for containment and cleaning up

Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

6.4. Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

Suitable packaging

Plastic construction.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limit Values

Isopropanol	ACGIH TLV TWA: 200 ppm	ACGIH TLV STEL: 400 ppm
	Notations: A4	OSHA PEL 8hr TWA ppm: 400
	OSHA PEL 8hr TWA mg m3: 980	Skin Designation: -

8.2. Exposure controls

Appropriate engineering controls	Ensure adequate ventilation of the working area.
Individual protection measures	Wear protective clothing.
Eye / face protection	In case of splashing, wear: Approved safety goggles.
Skin protection - Hand protection	Chemical resistant gloves (PVC).
8.2.3. Environmental exposure controls	Use appropriate container to avoid environmental contamination.
Occupational exposure controls	Protect clothing from contact with the product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Liquid
Color	Beige
Odor	Characteristic
Boiling point	< 100
Flash point	Not applicable.
Flammability limits	No data available
Autoignition temperature	No data available
Explosive properties	No data available
Oxidising properties	No data available
Solubility	Miscible in water

SECTION 10: Stability and reactivity

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10.1. Reactivity

Stable.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No Significant Hazard.

10.4. Conditions to avoid

No Significant Hazard.

10.5. Incompatible materials

No Significant Hazard. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Burning produces obnoxious and irritating fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

No data is available on this product.

11.1.4. Toxicological information

Isopropanol	Oral Rat LD50: 5000 mg/kg Dermal Rabbit LD50: 12800 mg/kg	Oral Mouse LD50: 3600 mg/kg
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SECTION 12: Ecological information

Further information

An environmental hazard cannot be eliminated in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

General information

Dispose of in compliance with all local and national regulations.

SECTION 14: Transport information

14.1. UN number

The product is not classified as dangerous for carriage.

14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

Further information

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The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out.

Inventories

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Glass Beads (Glass, oxide, chemicals)	Y	N	N	N	N	N	N	N	N
Isopropanol (2-Propanol)	Y	N	Y 1.0	N	N	N	N	N	N

SECTION 16: Other information

Other information

Text of risk phrases in Section 3	R11 - Highly flammable. R36 - Irritating to eyes. R38 - Irritating to skin. R67 - Vapours may cause drowsiness and dizziness.
Text of Hazard Statements in Section 3	Skin Irrit. 2: H315 - Causes skin irritation. Flam. Liq. 2: H225 - Highly flammable liquid and vapour. Eye Irrit. 2: H319 - Causes serious eye irritation. STOT SE 3: H336 - May cause drowsiness or dizziness.

Further information

HMIS LABELLING	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.
	All components are TSCA compliant.
	HEALTH 0, FLAMMABILITY 0, PHYSICAL HAZARD 0.