

SAFETY DATA SHEET

Dye Lock

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Dye Lock
Product Number: C039-G

Company Identification

Harris Research, Inc
1530 North 1000 West
Logan, UT 84321 USA
1-435-755-0099 (For product information)

HRI

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING: Causes skin and eye irritation.

GHS Hazard Symbols:

Irritant



GHS Hazard Statements:

H315 - Causes skin irritation.
H319 - Causes serious eye irritation.

GHS Precautionary Statements:

P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302/352 - IF ON SKIN: Wash with plenty of soap and water.
P305/351/338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332/313 - If skin irritation occurs: Get medical advice/attention.
P337/313 - If eye irritation persists: Get medical advice/attention.
P362 - Take off contaminated clothing and wash before reuse.

EYE:

Can cause severe eye irritation.

SKIN:

May cause severe skin irritation.



INHALATION:

Can cause severe respiratory irritation.

INGESTION:

May be harmful if swallowed.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
ACETIC ACID	10.0 - 20.0 %	64-19-7
CITRIC ACID	1.0 - 5.0 %	77-92-9

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

Flush eye with water for 15 minutes. Get medical attention, if irritation persists.

SKIN CONTACT FIRST AID:

Wash affected area with water.

INHALATION FIRST AID:

Seek immediate medical attention. Remove to fresh air.

INGESTION FIRST AID:

If swallowed, do NOT induce vomiting. Contact a physician.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

COC Flash Point: N/A

Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: N/A

UEL: N/A

FLAMMABLE PROPERTIES:

Not Flammable.

EXTINGUISHING MEDIA:

Water, carbon dioxide, foam or dry powder.

COMBUSTION PRODUCTS:

Carbon dioxide, carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Avoid breathing vapor.



INITIAL CONTAINMENT:

Absorb spills with inert material.

LARGE SPILLS PROCEDURE:

Contain spilled liquid with sand or earth.

SMALL SPILLS PROCEDURE:

Absorb spills with inert material.

7. HANDLING AND STORAGE

HANDLING (PERSONNEL):

Avoid contact with eyes, skin, and clothing.

HANDLING (PHYSICAL ASPECTS):

Store in a cool dry area.

STORAGE PRECAUTIONS:

Store in a well ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

ACETIC ACID

Recommended Exposure Limit: 10 ppm

Odor Threshold: 0.037-0.15 ppm

Immediate Lethal Dosage: 1000 ppm

OSHA PEL: 10 ppm, 25 mg/m³

OSHA TWA: 10 ppm, 25 mg/m³

ACGIH TWA: 10 ppm

OSHA STEL: 15 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Liquid
COLOR:	Clear
ODOR:	Pungent
SOLUBILITY IN WATER:	Complete
PH:	2.0-2.5
VOLATILE ORGANIC COMPOUNDS (VOC):	< 1.0

10. STABILITY AND REACTIVITY

STABILITY:

Stable.

INCOMPATIBILITY WITH OTHER MATERIALS:

Avoid contact with strong bases. Avoid contact with strong oxidizing agents.

DECOMPOSITION:

Carbon monoxide. Carbon dioxide. Corrosive vapours.



11. TOXICOLOGICAL INFORMATION

ACETIC ACID

Test Code: Oral LD50
Species: Rat
Results: 3310 mg/Kg

CITRIC ACID

Test Code: Oral LD50
Species: Mouse
Results: 5040 mg/kg

Test Code: Dermal 24H
Species: Rabbit
Results: 500 mg (moderate)

Acetic Acid Glacial

Test Code: Dermal LD50
Species: Rabbit
Results: 1060 mg/kg

Test Code: Inhalation LC50
Species: Mouse
Results: 5620 ppm/1hr

12. ECOLOGICAL INFORMATION

ACETIC ACID

Test Code: LC50 96HR
Species: Fathead minnow
Results: 88 mg/L

CITRIC ACID

Test Code: LC50 100H
Species: Goldfish
Results: > 625 mg/l

Acetic Acid Glacial

Test Code: EC50
Description: Wheat fumigation
Species: Wheat
Results: 23.3 mg/m³/2-hr, Effect: leaf injury

Test Code: LC50 48H
Species: Shrimp
Results: 100-300 mg/L

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

14. TRANSPORT INFORMATION



PRODUCT LABEL: Dye Lock
D.O.T. SHIPPING NAME: Not regulated

MISCELLANEOUS:

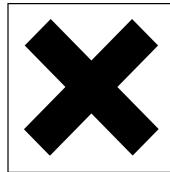
IMO/IMDG Shipping Classification: Not Regulated.

IATA Shipping Classification: Not Regulated.

15. REGULATORY INFORMATION

EEC Symbols and Indications of Danger:

Irritant (Xi)



R-Phrases:

R36/37/38 - Irritating to eyes, respiratory system, and skin.

S-Phrases:

S1/2 - Keep locked up and out of the reach of children.

WHMIS Hazard Symbols:

None

Canadian Disclosure List

ACETIC ACID (64-19-7)

CITRIC ACID (77-92-9)

CERCLA Hazardous Substances

ACETIC ACID (64-19-7) -- RQ 5000 lb

16. OTHER INFORMATION

PREPARED BY: Adnan Manassra
APPROVED BY: Adnan Manassra
TITLE: Chemist
APPROVAL DATE: August 21, 2015
SUPERCEDES DATE: August 21, 2015
RTN NUMBER: 00000308 (Official Copy)

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