

SAFETY DATA SHEET

Liquid PURT - Part A

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Liquid PURT - Part A
Product Number: C034-A
Chemical Family: Oxidizer

Company Identification

Harris Research, Inc.
1530 North 1000 West
Logan, UT 84321 USA
1-435-755-0099 (For product information)
1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

HRI

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING: Oxidizer. May cause skin or eye irritation. Corrosive.

GHS Hazard Symbols:

Oxidizing, Corrosive, Irritant



GHS Hazard Statements:

H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.
H335 - May cause respiratory irritation.

GHS Precautionary Statements:

P102 - Keep out of reach of children.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash hands, forearms, and exposed areas thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

EYE:

Will cause eye burns and can cause permanent tissue damage.

SKIN:

Causes skin burns.

INHALATION:



Causes respiratory tract irritation.

INGESTION:

Can burn mouth, throat, and stomach.

CARCINOGENICITY INFORMATION:

Not listed by IARC and NTP as a carcinogen.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
HYDROGEN PEROXIDE	8.0 - 20.0 %	7722-84-1
WATER	80.0 - 92.0 %	7732-18-5

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.

SKIN CONTACT FIRST AID:

Wash skin with soap and water.

INHALATION FIRST AID:

If inhaled, remove to fresh air.

INGESTION FIRST AID:

If swallowed, immediately give 2 glasses of water. Do not induce vomiting.

NOTES TO PHYSICIAN:

If ingested, insertion of a gastric tube may be advisable to relieve distention.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

COC Flash Point: None

Autoignition Temperature: None

FLAMMABLE LIMITS IN AIR

LEL: None

UEL: None

FLAMMABLE PROPERTIES:

Hydrogen peroxide solutions are non-combustible, but are strong oxidizers and can greatly intensify combustion.

FIRE & EXPLOSION HAZARDS:

When heated, hydrogen peroxide can undergo decomposition. Pressure from decomposition can rupture containers.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Protect skin and eyes from exposure.



INITIAL CONTAINMENT:

Prevent contact with flammable and combustible materials.

SMALL SPILLS PROCEDURE:

Flush spills with large amounts of water.

7. HANDLING AND STORAGE

HANDLING (PERSONNEL):

Avoid contact with skin and eyes.

HANDLING (PHYSICAL ASPECTS):

Store in a cool area. Keep away from sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE / FACE PROTECTION REQUIREMENTS:

Wear safety glasses.

SKIN PROTECTION REQUIREMENTS:

Wear protective gloves to minimize skin contamination.

RESPIRATORY PROTECTION REQUIREMENTS:

Under normal use conditions, with adequate ventilation, no special handling equipment is required.

EXPOSURE GUIDELINES:

Hydrogen peroxide

Immediate Lethal Dosage: 75 ppm

OSHA TWA: 1 ppm, 1.4 mg/m³

ACGIH TWA: 1 ppm, 1.4 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Liquid
COLOR:	Colorless
ODOR:	No odor
BOILING POINT:	102 C
SOLUBILITY IN WATER:	Complete
SPECIFIC GRAVITY:	1.05 (Water = 1)
PH:	3 - 4
% VOLATILES:	100 %

10. STABILITY AND REACTIVITY

STABILITY:

Stable; however, may decompose if heated or contaminated.

INCOMPATIBILITY WITH OTHER MATERIALS:

Contaminated solutions become unstable due to catalytic decompositions. Contact with metals can cause catalytic decomposition. Contact with reducing agents, organic, or combustible materials may cause immediate spontaneous ignition or delayed detonation.



11. TOXICOLOGICAL INFORMATION

Hydrogen peroxide

Test Code: Inhalation LC50

Species: Rat

Results: 2000 mg/m³/4H

Test Code: Oral LD50

Species: Mouse

Results: 2000 mg/Kg

Test Code: Dermal LD50

Species: Rat

Results: 4060 mg/Kg

12. ECOLOGICAL INFORMATION

Hydrogen peroxide

Test Code: Acute Aquatic Toxicity (48 hr.)

Species: Fingerling trout

Results: >40 ppm

Test Code: LC50

Species: Fathead minnow

Results: 22000 - 35000 mg/L/96H

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Dilute with large amounts of water and allow hydrogen peroxide to decompose (this may be done by a controlled reduction).

14. TRANSPORT INFORMATION

PRODUCT LABEL:	Liquid PURT - Part A
D.O.T. SHIPPING NAME:	Consumer commodity
D.O.T. HAZARD CLASS:	ORM-D
UN NUMBER:	UN 2984
D.O.T. LABEL:	Oxidizer
PACKAGE CLASS:	III

MISCELLANEOUS:

See 49CFR 173.152(c).

IATA Shipping Classification:

Hydrogen peroxide, aqueous solution, 5.1, UN2984, III.

IMO/IMDG Shipping Classification:

HYDROGEN PEROXIDE, AQUEOUS SOLUTION, 5.1, UN2984, III.

Limited quantity exception for inner packaging not exceeding 5.0 L of product.



15. REGULATORY INFORMATION

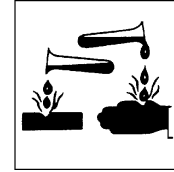
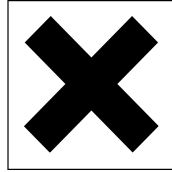
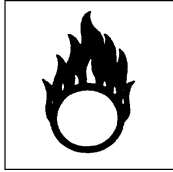
REGULATORY LISTS SEARCHED:

01 = SARA TITLE III SECTION 302
03 = RCRA HAZARDOUS WASTE CODES
05 = CLEAN AIR ACT
07 = FLORIDA RIGHT-TO-KNOW
09 = PENNSYLVANIA RIGHT-TO-KNOW

02 = SARA Title III Section 313
04 = CERCLA Hazardous Substances
06 = California Prop. 65
08 = Massachusetts Right-to-Know

EEC Symbols and Indications of Danger:

EU Oxidizing (O), Irritant (Xi), Corrosive (C)



R-Phrases:

R34 - Causes burns.
R36/37/38 - Irritating to eyes, respiratory system, and skin.

S-Phrases:

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S53 - Avoid exposure. Obtain special instructions before use.
S36/37/39 - Wear suitable protective clothing, gloves, and eye/face protection.

WHMIS Hazard Symbols:

Class C - Oxidizing Material, Class E - Corrosive Material



Canadian Disclosure List

Hydrogen peroxide (7722-84-1)

MISCELLANEOUS INFORMATION:

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA).

Hydrogen peroxide can be found on the following state right-to-know lists: CA, NJ, FL, PA, MN, and MA.

16. OTHER INFORMATION

PREPARED BY:	Adnan Manassra
APPROVED BY:	Sterling Nesbit
TITLE:	Chemist
APPROVAL DATE:	May 31, 2015
SUPERCEDES DATE:	May 30, 2015
RTN NUMBER:	00000260 (Official Copy)

NFPA Rating:



Health - 2
Flammability - 0
Reactivity - 1
Special Hazard - Oxidizer

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END OF SAFETY DATA SHEET

