

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Product Identification

Product Name: PURT II  
Product Number: C031

HARRIS RESEARCH, INC.

### 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)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### COMPONENT LISTING:

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>
SODIUM PERCARBONATE	60.0 - 85.0 %	15630-89-4
SODIUM BICARBONATE	10.0 - 30.0 %	144-55-8
ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT	5.0 - 10.0 %	64-02-8

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

## 3. HAZARDS IDENTIFICATION

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*****      EMERGENCY OVERVIEW      *****
*                                                                              *
*                                                                              *
*          CAUTION          *
*                                                                              *
* Dust irritating to respiratory tract. *
*                                                                              *
*****

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HMIS Rating -           Health: 2  
                          Flammability: 0  
                          Reactivity: 1



(section 3 continued)

**NFPA Rating -**                      **Health:** 2  
   **Flammability:** 0  
   **Reactivity:** 1  
   **Special Hazard:** Oxidizer

**POTENTIAL HEALTH EFFECTS**

**EYE:**

Can cause severe eye irritation.

**SKIN:**

May cause skin irritation with discomfort or rash.

**INHALATION:**

Irritating to the nose, throat, and respiratory tract.

**INGESTION:**

Irritating to mouth, throat, and stomach.

**4. FIRST AID MEASURES**

**EYE CONTACT FIRST AID:**

Flush eye with water for 15 minutes. Get immediate medical attention.

**SKIN CONTACT FIRST AID:**

Wash skin with plenty of water while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

**INHALATION FIRST AID:**

If exposed to excessive levels of dust, remove to fresh air.

**INGESTION FIRST AID:**

Do not induce vomiting. Contact a physician.

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES**

COC Flash Point: None  
TCC Flash Point: None  
Autoignition Temperature: None

**FLAMMABLE LIMITS IN AIR**

LEL: None  
UEL: None



(section 5 continued)

**EXTINGUISHING MEDIA:**

Use media suitable for surrounding fire conditions.

**FIRE & EXPLOSION HAZARDS:**

Contact with combustible materials may cause a fire.

**COMBUSTION PRODUCTS:**

This product decomposes to form hydrogen peroxide, carbon dioxide, and oxygen.

**MISCELLANEOUS:**

This product is an oxidizer, which can act to sustain the combustion of flammable materials.

**6. ACCIDENTAL RELEASE MEASURES**

**SAFEGUARDS (PERSONNEL):**

Protect skin and eyes from exposure. If excessive dust is created, wear dust mask or respirator to keep exposure below the Permissible Exposure Level for particulate matter.

**INITIAL CONTAINMENT:**

Contain spilled material.

**7. HANDLING AND STORAGE**

**HANDLING (PERSONNEL):**

Avoid breathing dust. Avoid contact with eyes, skin, and clothing.

**HANDLING (PHYSICAL ASPECTS):**

Avoid extreme temperatures. Store in a cool dry area.

**STORAGE PRECAUTIONS:**

Do not store near combustible materials.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EYE / FACE PROTECTION REQUIREMENTS:**

Wear safety glasses.

**SKIN PROTECTION REQUIREMENTS:**

Wear protective gloves to minimize skin contamination.



(section 8 continued)

**RESPIRATORY PROTECTION REQUIREMENTS:**

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

**EXPOSURE GUIDELINES:**

**Ethylenediaminetetraacetic acid, tetrasodium salt**

OSHA PEL: 15 total dust mg/m<sup>3</sup>

**9. PHYSICAL AND CHEMICAL PROPERTIES**

FORM .....: Powder  
COLOR .....: White  
ODOR .....: None  
SOLUBILITY IN WATER ...: Slight  
PH .....: 9 - 9.9 (2.5 % solution)

**10. STABILITY AND REACTIVITY**

**STABILITY:**

Stable when dry.

**POLYMERIZATION:**

Hazardous polymerization will not occur.

**INCOMPATIBILITY WITH OTHER MATERIALS:**

This material is incompatible with organic materials, heavy metals, oils and greases. Contamination with moisture, acids, reducing agents and metallic ions may cause decomposition.

**DECOMPOSITION:**

Decomposition may produce hydrogen peroxide, oxides of carbon and oxygen.

**CONDITIONS TO AVOID:**

Avoid moisture, high temperatures, and exposure to incompatible materials.

**11. TOXICOLOGICAL INFORMATION**

**Sodium percarbonate**

Test Code: Oral LD50  
Species: Rat  
Results: 2400 mg/Kg



(section 11 continued)

**Sodium bicarbonate**

Test Code: Oral LD50  
Species: Rat  
Results: 4220 mg/kg

**Ethylenediaminetetraacetic acid, tetrasodium salt**

Test Code: Oral LD50  
Species: Rat  
Results: > 2000 mg/kg

**12. ECOLOGICAL INFORMATION**

**Sodium bicarbonate**

Test Code: Acute Aquatic Toxicity (96 hr.)  
Species: Bluegill sunfish  
Results: 8250-9000 mg/L/96H.

**Ethylenediaminetetraacetic acid, tetrasodium salt**

Test Code: EC50  
Species: Daphnia magna  
Results: 1033 mg/L (24 h)

**13. DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL:**

Neutralize with weak acid (e.g., vinegar) and flush to sewer. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

**14. TRANSPORTATION INFORMATION**

PRODUCT LABEL .....: PURT II  
D.O.T. SHIPPING NAME ...: Not regulated

**MISCELLANEOUS:**

IATA Shipping Classification: Not Regulated.  
IMO/IMDG Shipping Classification: Not Regulated.



**15. REGULATORY INFORMATION**

**REGULATORY LISTS SEARCHED:**

01 = SARA TITLE III SECTION 302                    02 = SARA Title III Section 313  
03 = RCRA HAZARDOUS WASTE CODES                04 = CERCLA Hazardous Substances  
05 = CLEAN AIR ACT                                06 = California Prop. 65

**EEC Symbols and Indications of Danger:**

None

**R-Phrases:**

R8 - Contact with combustible material may cause fire.

**S-Phrases:**

S22 - Do not breathe dust.  
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 Chemical Substances under the Toxic Substance Control Act (TSCA).

**16. OTHER INFORMATION**

PREPARED BY .....: Edward Durrant  
APPROVED BY .....: Dale Jensen  
TITLE .....: Product Development Manager  
APPROVAL DATE .....: February 18, 2009  
SUPERCEDES DATE ...: May 11, 2006  
RTN NUMBER .....: 00000088 (Official Copy)

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**END OF MSDS**  
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