

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Rust Remover III, Accelerator
Product Number: C194
CAS Number: Blend

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:

Chemical Name	Amount	CAS Number
SULFAMIC ACID	10.0 - 30.0 %	5329-14-6
WATER	60.0 - 100.0 %	7732-18-5

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

3. HAZARDS IDENTIFICATION

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*****      EMERGENCY OVERVIEW      *****
*
*                                     *
*          CAUTION                    *
*
* Corrosive. May be fatal if swallowed. Causes
* severe irritation and burns to every area of
* contact.
*
*****

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(section 3 continued)

NFPA Rating - Health: 2
Flammability: 0
Reactivity: 0

POTENTIAL HEALTH EFFECTS

EYE:

Corrosive.

Contact causes severe eye irritation.

Can cause blurred vision, redness, pain, severe tissue burns and eye damage.

SKIN:

Corrosive, causes skin burning.

Contact with skin causes irritation and possible burns.

INHALATION:

Extremely destructive to tissues of the mucous membranes and upper respiratory tract. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

INGESTION:

Corrosive and may cause severe and permanent damage to mouth, throat, and stomach.

CHRONIC EFFECTS:

Chronic inhalation and ingestion may cause effects similar to those of acute inhalation and ingestion.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

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

Get immediate medical attention.

SKIN CONTACT FIRST AID:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Thoroughly wash (or discard) clothing and shoes before reuse.

Get medical attention immediately.



(section 4 continued)

INHALATION FIRST AID:

Remove to fresh air.

If breathing is difficult, give oxygen.

Get immediate medical attention.

INGESTION FIRST AID:

If swallowed, do NOT induce vomiting. Allow the victim to rinse his mouth and then to drink 2-4 cupfuls of water.

Get medical attention immediately.

NOTES TO PHYSICIAN:

Treat symptomatically.

For severe exposures, monitor for delayed onset of pulmonary edema.

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

EXTINGUISHING MEDIA:

Use extinguishing media most appropriate for the surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

INITIAL CONTAINMENT:

Neutralize material with a weak base (e.g., baking soda).

Neutralized waste can be discharged to the sewer with a large amount of water.

7. HANDLING AND STORAGE

HANDLING (PERSONNEL):

Do not get in eyes, on skin or clothing.



(section 7 continued)

HANDLING (PHYSICAL ASPECTS):

Store in a cool, dry, ventilated area away from sources of heat, moisture, and incompatibilities.

STORAGE PRECAUTIONS:

Protect from physical damage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE / FACE PROTECTION REQUIREMENTS:

Use chemical safety goggles.

SKIN PROTECTION REQUIREMENTS:

Wear protective gloves to minimize skin contamination.

RESPIRATORY PROTECTION REQUIREMENTS:

For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator is recommended.

EXPOSURE GUIDELINES:

No Information Available.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Liquid
COLOR: Colorless
ODOR: None
SOLUBILITY IN WATER ...: Complete
PH: 0.5-1

10. STABILITY AND REACTIVITY

STABILITY:

Stable under ordinary conditions of use and storage.

Slowly hydrolyzes to form ammonium sulfate and bisulfate.

POLYMERIZATION:

Hazardous polymerization will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS:

Strong oxidizers, nitric acid, chlorine.

Solutions are strong acids and react violently with bases.



(section 10 continued)

Metal nitrates and nitrites along with heat and fuming nitric acid.

DECOMPOSITION:

May emit ammonia, oxides of sulfur, oxides of nitrogen, and oxides of carbon.

CONDITIONS TO AVOID:

Excess heat.

11. TOXICOLOGICAL INFORMATION

Sulfamic Acid

Test Code: Oral LD50
Species: Rat
Results: 3160 mg/kg

Test Code: Dermal Irritation
Description: Standard Draize
Species: Rabbit
Results: 500 mg/24H severe

Test Code: Ocular Irritation
Description: Standard Draize
Species: Rabbit
Results: 250 ug/24H severe

12. ECOLOGICAL INFORMATION

Sulfamic Acid

Test Code: TLm 96H
Results: 96.5 ppm

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Not a listed RCRA hazardous waste. Neutralize with a weak base (e.g. baking soda) prior to disposal.

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



14. TRANSPORTATION INFORMATION

PRODUCT LABEL: Rust Remover III, Accelerator
D.O.T. SHIPPING NAME ...: Consumer commodity
D.O.T. HAZARD CLASS: ORM-D

MISCELLANEOUS:

See 49CFR173.154(c).

IATA Shipping Classification:

Sulphamic acid solution, 8, UN2967, III, Limited Quantity.

IMO/IMDG Shipping Classification:

SULPHAMIC ACID SOLUTION, 8, UN2967, III, LIMITED QUANTITY.

Note: Limited quantity exception for inner packagings not exceeding 5.0 L of product.

15. REGULATORY INFORMATION

REGULATORY LISTS SEARCHED:

01 = SARA TITLE III SECTION 302	02 = Sara Title III Section 313
03 = RCRA HAZARDOUS WASTES CODES	04 = CERCLA Hazardous Substances
05 = CLEAN AIR ACT	06 = California Prop. 65
07 = FLORIDA RIGHT-TO-KNOW	08 = Massachusetts Right-to-Know
09 = NEW JERSEY RIGHT-TO-KNOW	10 = Pennsylvania Right-to-Know

EEC Symbols and Indications of Danger:

Corrosive (C)



R-Phrases:

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

S-Phrases:

S24 - Avoid contact with skin.
S25 - Avoid contact with eyes.

WHMIS Hazard Symbols:

Class E - Corrosive Material





Canadian Disclosure List

Sulfamic Acid (5329-14-6)

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: December 16, 2008
SUPERCEDES DATE ...: May 2, 2007
RTN NUMBER: 00000030 (Official Copy)

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