# MATERIAL SAFETY DATA SHEET



| identity | Original Formula Novel® Laundry Rust Remover |
|---|---|

SECTION I

| | |
|---|---|
| manufacturer<br>Novel Technology Labs<br>1050 Harrison Av.<br>P. O. Box 207<br>Kearny, NJ 07032 | emergency telephone numbers 800-424-9300<br>or 703-527-3887 |
| | telephone number for information 201-997-3300 |
| | date prepared November 15, 1999 |

SECTION II - IMPORTANT INGREDIENTS/IDENTITY INFORMATION

| important components | chemical identity | cas# | % | tlv |
|---|---|---|---|---|
| WATER | $H_2O$ | 7732-18-5 | | |
| HYDROFLUORIC ACID * | HF | 7664-39-3 | 12% approx. | 3.0 PPM ACGIH |
| AMMONIUM BIFLUORIDE | $NH_4HF_2$ | 1341-49-7 | 16% approx. | 2.4Mg/M³ |
| * Subject to SARA, Title III, Section 313 and 40 CFR 372. | | | | |

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

| | | | |
|---|---|---|---|
| boiling point | ND | specific gravity ($H_2O$=1) | 1.1 approx. |
| vapor pressure (mm Hg) | ND | melting point | NA |
| vapor density (air=1) | ND | evaporation rate (butyl acetate=1) | ND |
| solubility in water 100% | | | |
| appearance and odor<br>colorless liquid, sharp odor | | | |

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

| | |
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| flash point (method used)<br>NA | flammable limits<br>NA |
| extinguishing media water or carbon dioxide "$CO_2$" for fires in area | |
| special fire fighting procedures<br>NA | |
| unusual fire and explosion hazards NA | |

SECTION V - REACTIVITY DATA

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| stability stable | conditions to avoid Avoid contact with strong alkalis, metals or high temperature. |
| incompatibility (materials to avoid)<br>strong alkalis, metals or other material | |
| hazardous decomposition products<br>With metals can release potentially dangerous hydrogen gas.<br>At decomposition emits highly corrosive fluoride fumes. | |
| hazardous polymerization will not occur | |

See Page 2 for more information.

## SECTION VI - HEALTH HAZARD DATA

**effects of overexposure**

Eyes: May cause permanent damage.

Skin: May cause severe burns which may not be immediately painful or visible, and may penetrate skin and damage underlying tissue.

Ingestion: May cause throat burns and severe swelling restricting breathing.

Inhalation: Concentration of "F" vapors of 2Mg/M³ or more may cause damage to lungs, respiratory system, and pulmonary edema.

**first aid**

In each case of overexposure, after first aid treatment, see a physician as soon as possible thereafter.

Eyes: Flush immediately with large quantities of clean cool water for at least 15 minutes. (Hold eyelids apart if necessary.)

Skin: Flush immediately with large quantities of water. (Shower if available.) Remove contaminated clothing.

Ingestion: Do not induce vomiting. Immediately drink large quantity of milk or water with added milk of magnesia.

Inhalation: Immediately remove victim from source of exposure.

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

**steps to be taken in case material is released or spilled**
Cover area with sodium bicarbonate to neutralize acid. Scoop up and dispose of as below.

**waste disposal method**
Dispose of in accordance with federal, state and local regulations.

**precautions to be taken in handling and storing** Do not get in eyes, on skin or clothing. Do not breathe vapor. Wash thoroughly after handling.

**other precautions**
Do not use if pregnant.

## SECTION VIII - CONTROL MEASURES

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| **respiratory protection**<br>Above 20 ppm of "F" wear<br>OSHA permissible gas mask or cartridge. | **ventilation**<br>local exhaust |
| **protective gloves**<br>PVC or neoprene | **eye protection**<br>chemical splash goggles |
| **other protective clothing or equipment**<br>rubber apron | |
| **work/hygienic practices**<br>Wash thoroughly after handling. Do not smoke, eat or drink in work area. | |

NA = Not Applicable
ND = Not Determined

See Page 1 for more information.