

## SAFETY DATA SHEET

MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200 AND SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) OF 1986 PUBLIC LAW 99-499. STANDARD SHOULD BE CONSULTED FOR SPECIFIC REQUIREMENTS.

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**NAME OF PRODUCT:** Instant Hardner 75  
**SYNONYMS:** Eutectic Hardner 75  
**PRODUCT CODES:** X75-2.27K

**MANUFACTURER/  
SUPPLIER:** EUTECTIC CORPORATION  
N94 W14355 GARWIN MACE DRIVE  
MENOMONEE FALLS, WI 53051 USA

**TELEPHONE NUMBER** (262) 532-4677  
**FAX NUMBER:** (262) 255-5542  
**EUTECTIC WEBSITE:** [www.eutectic.com](http://www.eutectic.com)

**PRODUCT CLASSIFICATION:** Chemical Aid. A cyanide-free hardening compound.

### SECTION 2: HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Causes serious eye irritation.

**HEALTH DANGER:** Danger of damage to health by prolonged exposure through inhalation.  
Contains Barium Chloride: Toxic

**ROUTES OF ENTRY:** Primary route of entry is the respiratory system. Other possible routes are eyes, ingestion, and/or skin contact.

**POTENTIAL HEALTH EFFECTS:**

**EYES:** Inert foreign body hazard only.  
**SKIN:** Prolonged contact may result in rashes/irritations due to drying of the skin and/or mechanical abrasion related to skin-to-clothing contact or skin-to-skin contact. May cause allergic skin reaction.  
**INGESTION:** No adverse health effects anticipated by this route during proper industrial handling.  
**INHALATION:** Exposure to dust may aggravate pre-existing respiratory conditions.

**WARNING:** This product contains or produces a chemical known to the State of California to cause birth defects (or other reproductive harm) and cancer. (California Health & Safety Code 25249.5 *et seq.*)

**WARNING:** avoid breathing welding fumes and gases; they may dangerous to your health. Always use adequate ventilation and use appropriate personal protection equipment.

**CARCINOGENICITY:**

**SILICON DIOXIDE** - is listed as being carcinogenic to humans on **IARC** and **NTP** lists, and is listed by **NIOSH** as being a potential occupational carcinogen (with no further categorization).

**WELDING FUMES** (not otherwise specified) are considered to be carcinogenic defined with no further categorization by **NIOSH** and **IARC**.

Package Labeling:

Although this product does not require a hazard warning label in all countries, we recommend that the safety advice should be observed:

GHS Pictogram: 07, 06



Warning



Toxic

**Barium Chloride**

Acute Tox. 3 \*

Acute Tox. 4 \*

**Hazard statement(s)**

H319 - Causes serious eye irritation

H301 - Toxic if swallowed

H332 - Harmful if inhaled

**Precautionary statement(s)**

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P285 In case of inadequate ventilation wear respiratory protection

P314 Get medical advice if you do not feel well

P202 Do not handle until all safety precautions have been read and understood

P260 Do not breathe dust/fume/gas/mist/vapors/spray

P501 Dispose of contents/container to waste treatment facility in accordance with local and national regulations

Before using this product, contact your doctor to determine if exposure to product or use of this product will aggravate your medical conditions.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**IMPORTANT:** This section covers the materials from which these products are manufactured. Any of the chemicals or compounds subject to reporting under Title III, in Section 313, of the Superfund Amendments and Reauthorization Act (SARA) are marked by the symbol #.

**Exposure Limit (mg/m<sup>3</sup>)**

INGREDIENTS	CAS NUMBER	OSHA PEL	ACGIH-TLV	Percent Ingredients by Weight
Potassium Carbonate	584-08-7	Not listed	Not listed	15 – 40
Potassium Chloride	7447-40-7	Not Listed	Not Listed	10 – 30
Sodium Chloride	7647-14-5	Not Listed	Not Listed	10 – 30
Barium Chloride #	10361-37-2	0.5 (Ba)	0.5 (Ba)	10 – 30
Graphite (elemental)	7782-42-5	15 mppcf	2	5 – 10
Urea	57-13-6	Not listed	Not listed	5 – 10
Silicon Dioxide	14808-60-7	**	0.05	0.1 - 1

mppcf = millions of particles per cubic foot of air

\*\* 10 mg/m<sup>3</sup> / (% SiO<sub>2</sub> + 2)

**CAS / EINECS NUMBER / HAZARD CLASSIFICATION FOR ABOVE INGREDIENTS**

<b>INGREDIENTS</b>	<b>CAS NUMBER</b>	<b>EINECS NUMBER</b>	<b>Hazard Classification per ECD 67/548/EEC</b>
Potassium Carbonate	584-08-7	209-529-3	Not listed
Potassium Chloride	7447-40-7	231-211-8	Not listed
Sodium Chloride	7647-14-5	231-598-3	Not listed
Barium Chloride #	10361-37-2	233-788-1	T;R25 Xn;R20
Graphite (elemental)	7782-42-5	231-955-3	Not listed
Urea	57-13-6	200-315-5	Not listed
Silicon Dioxide	14808-60-7	238-878-4	No

Exposure limits are subject to change. Contact ACGIH and OSHA for current values. See Section 16 for European Council Directive 67/548/EEC R-phrases and S-phrases if applicable.

**SECTION 4: FIRST AID MEASURES**

**EMERGENCY & FIRST AID PROCEDURES:** Call for medical aid. Employ first aid techniques recommended by The American Red Cross.

**EYES:** Flush with a large amount of fresh water for at least 15 minutes. Get medical attention.

**SKIN:** Wash affected area with soap and water to remove dust or particles. If rash develops, see a physician. Get medical attention for irritations that persist.

**INGESTION:** Rinse mouth with water. Seek medical attention.

**INHALATION:** Remove to fresh air. If breathing is difficult administer oxygen. If breathing has stopped, begin artificial respiration and obtain medical assistance immediately.

**GENERAL:** Move to fresh air and call for medical aid.

**SECTION 5: FIRE FIGHTING MEASURES**

**Flammable:** No

**NFPA HAZARD CLASSIFICATION:**

Health: 2                      Flammability: 0                      Reactivity: 1                      Other:

**HMS HAZARD CLASSIFICATION:**

Health: 2                      Flammability: 0                      Reactivity: 1                      Protection:

**EXTINGUISHING MEDIA:** In case of fire, use water spray, dry chemical, or CO<sub>2</sub>.

**SPECIAL FIRE FIGHTING PROCEDURES:** In case of fire wear suitable respiratory equipment with positive air supply.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon oxides and barium oxides.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**ACCIDENTAL RELEASE MEASURES:** Avoid generating dust. Powder may be vacuumed up or swept up and placed in a container for proper disposal.

**PERSONAL PRECAUTIONS:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.

**ENVIRONMENTAL PRECAUTIONS:** Do not discharge product into drains or bodies of water.

## SECTION 7: HANDLING AND STORAGE

**HANDLING:** Avoid exposure to dust and do not ingest. Avoid contact with skin, eyes, and clothing. Some individuals can develop an allergic reaction to certain materials.

**STORAGE:** Keep material sealed and dry before use and store in a cool location and in the original labeled container. After using, keep remaining product sealed and dry and keep powder in original labeled container and store in a cool and dry location.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION



**Read and understand the manufacturer's instructions and precautionary label on this product.**

Always use adequate ventilation and wear appropriate personal protection. Do not breathe dust particles; they are dangerous to your health.

**ENGINEERING CONTROLS:** Proper ventilation must be maintained.

**VENTILATION:** Use enough ventilation, local exhaust at the work area, or both, to keep the fumes and gases below the TLV's in the workers breathing zone and the general area. Train the worker to keep their head out of the fumes. Monitor fume levels and do not exceed permissible exposure limits or values.

**RESPIRATORY PROTECTION:** Use respirable fume respirator or air supplied respirator when using this product in a confined space or where local exhaust or ventilation does not keep exposure below the TLV's.

**EYE PROTECTION:** Wear safety goggles to protect against exposure and contact with product.

**PROTECTIVE CLOTHING:** Wear gloves when using to prevent contact with skin. Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**SKIN PROTECTION:** Individuals having sensitive skin may find it beneficial to use a barrier cream or moisturizer when excessive or prolonged contact with skin is likely.

**WORK HYGIENIC PRACTICES:** Do not eat or consume beverages in the work area.

**EXPOSURE GUIDELINES:** Use industrial hygiene monitoring equipment to ensure that exposure does not exceed applicable national exposure limits.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Black powder. No odor.

**Flash Point:** not applicable

**pH:** not applicable

**Solubility:** 100 % in water at 20 °C

## SECTION 10: STABILITY AND REACTIVITY

**GENERAL:** This item is only intended for use in manufacturing applications.

**STABILITY:** Product is chemically stable and non-reactive.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**MATERIALS TO AVOID:** Strong acids and bases.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** No data available.

## SECTION 11: TOXICOLOGICAL INFORMATION

When used with conjunction with welding, welding fumes cannot be classified simply. The composition and quantity of both are dependent upon the metal being welded, the process, procedure, and the electrode used. Other conditions which also influence the composition and quantity of the fumes and gases to which workers may be exposed include: coatings on the metal being welded (such as paint, plating, or galvanizing), the number of welders and the volume of the work area, the quality and the amount of ventilation, position of the welder's head with respect to the fume plume, as well as the presence of contaminants in the atmosphere (such as chlorinated hydrocarbon vapors from cleaning and degreasing activities). The International Agency for Research on Cancer has classified welding fumes as possibly carcinogenic to humans (group 2B).

**EFFECTS OF OVEREXPOSURE** – Hardener 75 may create one or more of the following health hazards:

**EXPOSURE TO PRODUCT** can be dangerous to your health.

**PRIMARY ROUTES OF ENTRY** is the respiratory system. Other possible routes are eyes, ingestion, and/or skin contact.

**PREEXISTING** respiratory or allergic conditions may be aggravated in some individuals (i.e. asthma, emphysema).

**SHORT TERM (ACUTE) OVEREXPOSURE** to welding fumes may result in discomfort such as metal fume fever, dizziness, nausea, or dryness or irritation of nose, throat, or eyes. Inhalation of large amounts of mineral oil mist may cause adverse respiratory affects. May cause pulmonary effects. **PRIMARY ROUTE OF ENTRY** is the respiratory system. **BARIUM COMPOUNDS:** Short term overexposure to soluble barium compounds may cause aching eyes, rhinitis, frontal headache, wheezing, laryngeal spasms, salivation or anorexia.

**LONG TERM (CHRONIC) OVEREXPOSURE** - is believed by some investigators to affect pulmonary functions. **PRIMARY ROUTE OF ENTRY** is the respiratory system. Prolonged skin exposure to mineral oils may cause dermatitis. **BARIUM COMPOUNDS** Long term overexposure to soluble barium compounds may cause nervous disorders and may have deleterious effects on the heart, circulatory system and musculature. Target organs are eyes, skin, and respiratory system.

## SECTION 12: ECOLOGICAL INFORMATION

Do not flush product into surface water or sanitary sewers.

**Contaminated Packaging:** Empty containers should be taken for local recycling, recovery, or waste disposal.

## SECTION 13: DISPOSAL CONSIDERATION

**WASTE DISPOSAL METHOD:** Dispose of any product and waste residues in accordance with EPA or local regulations. Where possible, recycling is the preferred method of disposal. Contact a licensed professional waste disposal service to dispose of this material.

Review U.S. Federal Hazardous Waste Regulations §40 CFR261 to determine if this is hazardous in USA. Please be advised that state and local requirements, or other country requirements, for waste disposal may be more restrictive or otherwise different than U.S. Federal regulations.

**SECTION 14: TRANSPORTATION INFORMATION**

**DOMESTIC TRANSPORT REGULATIONS (USA):** DOT - not regulated.

**DOMESTIC TRANSPORT REGULATIONS (CANADA):** TDG - not regulated.

**DOMESTIC TRANSPORT REGULATIONS (MEXICO):** MEX - not regulated.

**INTERNATIONAL TRANSPORT REGULATIONS:**

ICAO – not regulated

IATA – not regulated

IMDG / IMO – not regulated

**OTHER AGENCIES:** No international regulations or restrictions are applicable.

Handle with care to avoid damaging the product. Keep product dry and in original labeled container.

**SECTION 15: REGULATORY INFORMATION**

**Read and understand the manufacturer's Safety Data Sheet before handling or disposing of this product.**

**U.S. EPA TSCA (TOXIC SUBSTANCE CONTROL ACT):** All constituents of these products are on the TSCA inventory list or are excluded from listing.

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center and to our Local Emergency Planning Committee.

**EPCRA/SARA TITLE III 313 TOXIC CHEMICALS:**

The following metallic components are listed as SARA 313 “TOXIC CHEMICALS” and are potentially subject to annual SARA 313 reporting. See Section 3 if the ingredient is present and for percent.

<u>INGREDIENT NAME</u>	<u>CAS NUMBER</u>	<u>DISCLOSURE THRESHOLD</u>
Chromium & chromium compounds	7440-47-3	1.0 % de minimis concentration
Chromium VI	Not listed	0.1 % de minimis concentration
Barium compounds	Not listed	1.0 % de minimis concentration
Cobalt	7440-48-4	0.1 % de minimis concentration
Copper	7440-50-8	1.0 % de minimis concentration
Manganese	7439-96-5	1.0 % de minimis concentration
Nickel	7440-02-0	0.1 % de minimis concentration
Aluminum (fume or dust)	7429-90-5	1.0 % de minimis concentration
Silver	7440-22-4	1.0 % de minimis concentration

**SECTION 16: OTHER INFORMATION**

This Safety Data Sheet has been revised due to modifications to several paragraphs and/or new format.

**Prepared by:** Eutectic Corporation, USA

**Barium Chloride**

R20: Harmful by inhalation

R25: Toxic if swallowed

**S-phrases**

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

S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

**SUPPLEMENTAL INFORMATION – DEFINITIONS:**

IARC: International Agency for the Research on Cancer  
NIOSH: National Institute for Occupational Safety and Health  
OSHA: U.S. Occupational Safety and Health Administration  
ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstracts Service Registry Number  
EINECS: European Inventory of Existing Chemical Substances

PEL: Permissible Exposure Limit  
NTP: National Toxicology Program  
TLV: Threshold Limit Value  
ECD: European Council Directive  
GHS: Globally Harmonized System

The information in this SDS was obtained from sources we believe are reliable. However, this information is provided without any representation or warranty, expressed or implied, regarding accuracy or correctness. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons we do not assume responsibility and expressly disclaim liability of loss, damage, or expense arising from it or any way connected with the handling, storage, use, or disposal of the product.