

## 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:** HOT BLOCK

**MANUFACTURER/  
SUPPLIER:** SOLDERWELD INC  
2050 N 300 W #72  
SPANISH FORK, UT 84660 USA

**TELEPHONE NUMBER  
FAX NUMBER:** (800) 356-8449

**SOLDERWELD WEBSITE:** [www.solderweld.com](http://www.solderweld.com)

**PRODUCT USE:** Welding Aid - Heat Sink Compound

### SECTION 2: HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Chemically stable and inert. Does not pose a fire hazard as shipped. **Non-Flammable:** Flames used for brazing and spraying in conjunction when using this product can ignite combustibles. Refer to American National Standard Z49.1 for fire prevention during welding. This product - as shipped- is non-hazardous, nonflammable, non-explosive, and non-reactive. In case of fire, use NIOSH/MSHA self contained breathing apparatus for the situation.

**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:** Rashes/irritations due to contact may occur.  
**INGESTION:** Danger of damage to health if swallowed (nausea, vomiting, and abdominal pains).  
**INHALATION:** Not likely to be hazardous by inhalation.

**ACUTE HEALTH HAZARDS:** see Section 11

**CHRONIC HEALTH HAZARDS:** see Section 11

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

#### CARCINOGENICITY

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

**GHS classification:** not applicable

#### **Hazard Statements:**

H317 May cause an allergic skin reaction

**Precautionary Statements**

- P314 Get medical advice/attention if you feel unwell.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- 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. Spatter and flames from brazing and welding may cause burns and start fires.

**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>)**

<u>INGREDIENTS</u>	<u>CAS NUMBER</u>	<u>OSHA PEL</u>	<u>ACGIH-TLV</u>	<u>Percent Ingredients (by Weight)</u>
Cellulose	9004-34-6	5	10	7 – 13
Sodium Chloride	7647-14-5	Not listed	Not listed	10 – 30
Mica	12001-26-2	20 mppcf*	3	10 – 30
Water	7732-18-5	Not listed	Not listed	30 – 60

Balance: other proprietary ingredients that are non-toxic or carcinogenic and are claimed as trade secrets.

\*mppcf = millions of particles per cubic foot of air

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

<u>INGREDIENTS</u>	<u>CAS NUMBER</u>	<u>EINECS NUMBER</u>	<u>Hazard Classification per ECD 67/548/EEC</u>
Cellulose	9004-34-6	232-674-9	No
Sodium Chloride	7647-14-5	231-598-3	No
Mica	12001-26-2	310-127-6	No
Water	7732-18-5	231-791-2	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 and inform them of the ingredients from Section 3. 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 product. If rash develops, see a physician. Get medical attention for irritations that persist.

**INGESTION:** Seek medical attention immediately.

**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

**Non-Flammable** This product as shipped is non-hazardous, nonflammable, non-explosive, and non-reactive. In case of fire, Use NIOSH/MSHA self contained breathing apparatus.

**NFPA HAZARD CLASSIFICATION:**

Health: 1                      Flammability: 0                      Reactivity: 0

Other: In case of fire, Use NIOSH/MSHA self contained breathing apparatus.

**HMIS HAZARD CLASSIFICATION:**

Health: 1                      Flammability: 0                      Reactivity: 0

In case of fire, Use NIOSH/MSHA self contained breathing apparatus.

**EXTINGUISHING MEDIA:** Use the extinguishing media recommended for the burning material and fire situation.

**SPECIAL FIRE FIGHTING PROCEDURES:** In case of fire, Use NIOSH/MSHA self contained breathing apparatus.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** Overheating may generate a non-toxic nuisance dust.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**ACCIDENTAL RELEASE MEASURES:** Absorb with inert material and place in a suitable container for proper disposal.

**PERSONAL PRECAUTIONS:** Chemical goggles and rubber gloves should be worn.

**ENVIRONMENTAL PRECAUTIONS:** Do not flush residue into waterways.

### SECTION 7: HANDLING AND STORAGE

**HANDLING:** Avoid exposure to dust, do not ingest and avoid contact with eyes. Some individuals can develop an allergic reaction to certain materials. Do not breathe fumes. Do not eat, drink, or smoke when using this product. Wash thoroughly after using this product.

**STORAGE:** Keep material sealed and in the original container before use. After using, keep remaining product sealed and dry in original (labeled) packaging.

### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION



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

**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 and the general area. Train the worker to keep his head out of the fumes. Monitor fume levels and do not exceed permissible exposure limits or values.

**RESPIRATORY PROTECTION:** Do NOT breathe fumes if heating this product or using it as a heat sink compound when welding, cutting or brazing. Use respirable fume respirator or air supplied respirator when welding or working in a confined space or where local exhaust or ventilation does not keep exposure below the TLV's.

**EYE PROTECTION:** Wear chemical safety goggles to protect against accidental contact.

**PROTECTIVE CLOTHING:** Wear chemical resistant gloves when using or prolonged contact with skin or repeated contact with skin is likely. Wear hand and body protection to prevent injury. See ANSI Z49.1.

**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:** Professionally wash contaminated clothing before re-use. Food and drink should not be consumed or tobacco products used, nor cosmetics applied in area where exposures are possible.

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

**EFFECTS OF OVEREXPOSURE** - brazing / thermal spraying / welding may create one or more of the following health hazards: **FUMES AND GASES** 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).

Exposure limits are subject to change. Contact ACGIH, OSHA, NIOSH, and IARC for current values.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** damp blue fibrous compound, no odor

**pH-Value:** n.a.

**Changes in the physical state:** dries when heated

**Boiling point:** n.a.

**Flash point:** n.a.

## SECTION 10: STABILITY AND REACTIVITY

**GENERAL:** This item is only intended for ancillary support for general activities involving brazing, soldering, welding and thermal spraying applications.

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

**CONDITIONS TO AVOID:** Keep product away from heat and moisture.

**MATERIALS TO AVOID:** Non-reactive.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**REACTIVITY:** None.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Fumes can be dangerous to your health. See Section 11

In other countries the exposure limits listed in Section 3 may be different and the appropriate country standards should be used.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Threshold Limit Value:** The ACGIH recommended general limit for welding fume NOS (not otherwise specified) is 5 mg/m<sup>3</sup>. The ACGIH 1999 preface states: "The TLV-TWA should be used as guides in the control of health hazards and should not be used as firm lines between safe and dangerous concentrations." See Section 8 for specific fume constituents that may modify the TLV.

**ACUTE TOXICITY: SHORT TERM (ACUTE) OVEREXPOSURE** when used in conjunction with welding or brazing - welding fume may result in discomfort such as metal fume fever, dizziness, nausea, or dryness or irritation of nose, throat, or eyes. **PRIMARY ROUTE OF ENTRY** is the respiratory system.

**CHRONIC TOXICITY: LONG TERM (CHRONIC) OVEREXPOSURE** when used in conjunction with welding or brazing - is believed by some investigators to affect pulmonary functions. **PRIMARY ROUTE OF ENTRY** is the respiratory system.

Avoid direct inhalation of fumes during heating and avoid inhalation of dust. Do not allow dust to accumulate. Monitor fume levels.

**SECTION 12: ECOLOGICAL INFORMATION**

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

**SPILLS:** Clean up with inert material and dispose of in accordance to local regulations.

Do not flush into surface water or sanitary sewer system.

**SECTION 13: DISPOSAL CONSIDERATION**

**Disposal:** Containers should be emptied as completely as practical before disposal. If possible, recycle product and containers either in-house or send to recycle company. If this is not practical, send to a commercial waste disposal site.

**SECTION 14: TRANSPORTATION INFORMATION**

**UN Number:** This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulation.

**SECTION 15: REGULATORY INFORMATION**

**AICS:** All of the significant ingredients in this formulation are compliant with NICNAS regulations.

**SECTION 16: OTHER INFORMATION**

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

**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.

8075