

SAFETY DATA SHEET

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SDS Number: 66-D Date Revised: 10/15/2013

This Safety Data Sheet complies with Regulation (EC) No. 1907/2006, ISO 11014-1 and ANSI Z400.1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: ALL-STATE HANDI-JIG
Application: Welding Aid (Heat Sink)

Classification: None

Supplier: THE ESAB GROUP, INC., 801 Wilson Avenue, Hanover, PA 17331

Telephone No.: 1-717-637-8911, 1-800-933-7070

Emergency No.: 1-717-637-8911 and 1-800-424-9300 (CHEMTREC)

Web site: www.esabna.com

2. HAZARDS IDENTIFICATION

Emergency Overview: A putty like material used in joining to attain proper spacing, plate firmness and surface shielding.

Gloves should be worn when handling to prevent contaminating hands with product.

This product contains quartz, but normally not in an inhalable fraction. Quartz can cause silicosis and may cause cancer.

Persons with a pacemaker should not go near welding or cutting operations until they have consulted their doctor and obtained information from the manufacturer of the device.

When this product is used in a welding process, the most important hazards are heat, radiation, electric shock and welding fumes.

Heat: Spatter and melting metal can cause burn injuries and start fires.

Radiation: Arc rays can severely damage eyes or skin.

Electricity: Electric shock can kill.

Fumes: Overexposure to welding fumes may result in symptoms like metal fume fever, dizziness, nausea, dryness or irritation

of the nose, throat or eyes. Chronic overexposure to welding fumes may affect pulmonary function. Prolonged inhalation of nickel and chromium compounds above safe exposure limits can cause cancer. Overexposure to manganese and manganese compounds above safe exposure limits can cause irreversible damage to the central nervous system, including the brain, symptoms of which may include slurred speech, lethargy, tremor, muscular

weakness, psychological disturbances and spastic gait.

Flame When used with combustible gas equipment (e.g., oxy-acetylene torch), read the use and safety information for that

Processing: equipment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a putty.

Ingredients	Weight %	REACH Reg. #	CAS#	EINECS#	Hazard classification ⁽¹⁾	IARC ⁽²⁾	NTP ⁽³⁾	OSHA List ⁽⁴⁾
Cellulose	1-11		9004-34-6	232-674-9	No			
Mica	20-30		12001-26-2	(cosmetic ing.)	No			
Sodium Chloride	10-20		7647-14-5	231-598-3	No			
Water	40-50		7732-18-5	231-791-2	No			

⁽¹⁾ Hazard Classification according to European Council Directive 67/548/EEC, for R-phrases, see Section 16.

⁽²⁾ Evaluation according to the International Agency for Research on Cancer.

^{1 –} Carcinogenic to humans. 2A – Probably carcinogenic to humans. 2B – Possibly carcinogenic to humans.

⁽³⁾ Classification according to the 11th Report on Carcinogens, published by the US National Toxicology Program. K – Known Carcinogen S – Suspect Carcinogen

⁽⁴⁾ Carcinogen listing according to OSHA, Occupational Safety & Health Administration (USA).

S – Suspect Carcinogen (use only when Formaldehyde is used)



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4. FIRST AID MEASURES

Contact with Product:

Inhalation: Remove to fresh air or administer oxygen. Call a physician.

Eye contact: Flush with water for at least fifteen minutes. Call a physician.

Skin contact: Wash thoroughly with water. If rash develops, call a physician.

Ingestion: Get medical attention immediately.

During Welding:

Inhalation: If breathing has stopped, perform artificial respiration and obtain medical assistance immediately! If breathing is

difficult, provide fresh air and call physician.

Eye contact: For radiation burns due to arc flash, see physician. To remove dusts or fumes flush with water for at least fifteen

minutes. If irritation persists, obtain medical assistance.

Skin contact: For skin burns from arc radiation, promptly flush with cold water. Get medical attention for burns or irritations that

persist. To remove dust or particles wash with mild soap and water.

Electric shock: Disconnect and turn off the power. Use a nonconductive material to pull victim away from contact with live parts or

wires. If not breathing, begin artificial respiration, preferably mouth-to-mouth. If no detectable pulse, begin Cardio

Pulmonary Resuscitation (CPR). Immediately call a physician.

General: Move to fresh air and call for medical aid.

5. FIRE FIGHTING MEASURES

For product:

Means of extinguishing: No danger requiring special measures.

Special protective equipment when fighting fire: None

Welding arcs and sparks can ignite combustible and flammable materials. Use the extinguishing media recommended for the burning materials and fire situation. Wear self-contained breathing apparatus as fumes or vapors may be harmful.

6. ACCIDENTAL RELEASE MEASURES

Individual precautions: Avoid dust formation/breathing dust.

Environmental protection precautions: No particular indications.

Cleaning measures: Remove spoiled product mechanically.

Solid objects may be picked up and placed into a container. Liquids or pastes should be scooped up and placed into a container. Wear

proper protective equipment while handling this material. Do not discard as refuse.

Personal precautions: refer to Section 8. Environmental precautions: refer to Section 13.

7. HANDLING AND STORAGE

Handling: Handle with standard transportation equipment.

Storage: Store in a dry place in closed packages.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Avoid exposure to welding fumes, radiation, spatter, electric shock, heated materials and dust.

Engineering measures: (Welding operations)

Ensure sufficient ventilation, local exhaust, or both, to keep welding fumes and gases from breathing zone and general area. Keep working place and protective clothing clean and dry. Train welders to avoid contact with live electrical parts and insulate conductive parts. Check condition of protective clothing and equipment on a regular basis.

Personal protective equipment: (Welding operations)

Use respirator or air supplied respirator when welding or brazing in a confined space, or where local exhaust or ventilation is not sufficient to keep exposure values within safe limits. Use special care when welding painted or coated steels since hazardous substances from the coating may be emitted. Wear hand, head, eyes, ear and body protection like welders gloves, helmet or face shield with filter lens, safety boots, apron, arm and shoulder protection. Keep protective clothing clean and dry.

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Use industrial hygiene monitoring equipment to ensure that exposure does not exceed applicable national exposure limits. The following limits can be used as guidance. When used with brazing and welding products, refer to the brazing and welding product SDS, Section 10, for information on brazing and welding fumes.

Substance	CAS#	ACGIH TLV (1) mg/m ³	OSHA PEL (2) mg/m ³	
Cellulose	9004-34-6	10	15*, 5**	
Mica	12001-26-2	3**	20 mppcf, quartz < 1%	
Sodium Chloride	7647-14-5	None	None	
Water	7732-18-5	None	None	

Threshold Limit Values according to American Conference of Governmental Hygienists, 2013

Unless noted, all values are for 8 hour time weighted averages (TWA).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid.

Melting Point: 850-1100°C/1560-2000°F

Odor None.

pH: Non applicable.

Relative Density: 6-9 g/cm³

Solubility: Insoluble in water.

10. STABILITY AND REACTIVITY

Conditions to avoid: Not applicable. Materials to avoid: Reacts with acids.

Hazardous decomposition products: Unknown.

General: This product is only intended for normal welding purposes.

Stability: This product is stable under normal conditions.

Reactivity: Contact with chemical substances like acids could cause generation of gas.

When this product is used in a welding process, hazardous decomposition products would include those from the volatilization, reaction or oxidation of the materials listed in Section 3 and those from the base metal and coating.

Refer to applicable national exposure limits for fume compounds, including those exposure limits for fume compounds found in Section 8. A significant amount of the chromium in the fumes can be hexavalent chromium, which has a very low exposure limit in some countries. Manganese and nickel also have low exposure limits that may be easily exceeded.

Reasonably expected gaseous products would include a complex of the oxides of the materials listed in Section 3, as well as carbon oxides, nitrogen oxides and ozone. Air contaminants around the welding area can be affected by the welding process and influence the composition and quantity of fumes and gases produced.

11. TOXICOLOGICAL INFORMATION

Effects of acute exposure.

Toxicity to animals: Unknown. Local effects: Not applicable.

Inhalation: Not applicable for the product. For welding fumes, see below.

Ingestion: Not applicable.

Contact with skin: No adverse effects expected, but should be avoided to prevent possible allergic reaction

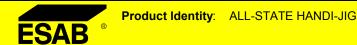
Inhalation of welding fumes and gases can be dangerous to your health. Classification of welding fumes is difficult because of varying base materials, coatings, air contamination and processes. The International Agency for Research on Cancer has classified welding (ALWAYS KEEP AS WELDING) fumes as possibly carcinogenic to humans (Group 2B).

Acute toxicity: Overexposure to welding fumes may result in symptoms like metal fume fever, dizziness, nausea, dryness or irritation

of the nose, throat or eyes.

Permissible Exposure Limits according to the Occupational Safety & Health Administration (USA)

^{*} Total dust, ** Respirable fraction, *** Inhalable fraction.



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Chronic toxicity:

Overexposure to welding fumes may affect pulmonary function. Prolonged inhalation of nickel and chromium compounds above safe exposure limits can cause cancer. Overexposure to manganese and manganese compounds above safe exposure limits can cause irreversible damage to the central nervous system, including the brain, symptoms of which may include slurred speech, lethargy, tremor, muscular weakness, psychological disturbances and spastic gait. Prolonged inhalation of titanium dioxide above safe exposure limits can cause cancer. Inhalable quartz is a respiratory carcinogen; however, the process of welding converts crystalline quartz to the amorphous form which is not considered to be a carcinogen.

12. ECOLOGICAL INFORMATION

For product: Data unknown.

Welding consumables and materials could degrade/weather into components originating from the consumables or from the materials used in the welding process. Avoid exposure to conditions that could lead to accumulation in soils or groundwater.

13. DISPOSAL CONSIDERATIONS

Product: For product elimination, consult recycling companies or appropriate local authority.

Package: May be disposed in approved landfills provided local regulations are observed.

USA RCRA: This product is not considered hazardous waste if discarded.

Residues from welding consumables and processes could degrade and accumulate in soils and groundwater.

14. TRANSPORT INFORMATION

International Regulations:

Land shipment: No hazard.
Rail/route (RID/ADR)
Sea shipment: No hazard.
Shipment by air: No hazard.

15. REGULATORY INFORMATION

Label CEE: Not necessary

Danger symbols and indications:

R-Phrases: None. S-Phrases: None.

Read and understand the manufacturer's instructions, your employer's safety practices and the health and safety instructions on the label. Observe any federal and local regulations. Take precautions when welding and protect yourself and others.

WARNING: Welding fumes and gases are hazardous to your health and may damage lungs and other organs. Use adequate ventilation.

ELECTRIC SHOCK can kill.

ARC RAYS and SPARKS can injure eyes and burn skin.

Wear correct hand, head, eye and body protection.

Canada: WHMIS classification: Not a controlled product

Canadian Environmental Protection Act (CEPA): All constituents of this product are on the Domestic Substance List (DSL).

USA: Under the OSHA Hazard Communication Standard, this product is considered hazardous.

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

United States EPA Toxic Substance Control Act: All constituents of this product are on the TSCA inventory list or are excluded from listing.

CERCLA/SARA Title III

Reportable Quantities (RQs) and/or Threshold Planning Quantities (TPQs):

Ingredient name	RQ (lb)	TPQ (lb)
Product is a solid solution in the form of a solid article.		

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 your Local Emergency Planning Committee.



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Section 311 Hazard Class

As shipped: None. In use: None.

EPCRA/SARA Title III 313 Toxic Chemicals

The following metallic components are listed as SARA 313 "Toxic Chemicals" and potential subject to annual SARA 313 reporting. See Section 3 for weight percent.

Ingredient name Disclosure threshold

No ingredients listed in this section.

16. OTHER INFORMATION

This Safety Data Sheet has been revised due to reformatting. This SDS supersedes 66-C.

Refer to ESAB "Welding and Cutting - Risks and Measures", F52-529 "Precautions and Safe Practices for Electric Welding and Cutting" and F2035 "Precautions and Safe Practices for Gas Welding, Cutting and Heating" available from ESAB, and to:

USA: Contact ESAB at www.esabna.com or 1-800-ESAB-123 if you have questions about this SDS.

American National Standard Z49.1 "Safety in Welding and Cutting", ANSI/AWS F1.5 "Methods for Sampling and Analyzing Gases from Welding and Allied Processes", ANSI/AWS F1.1 "Method for Sampling Airborne Particles Generated by Welding and Allied Processes", AWSF3.2M/F3.2 "Ventilation Guide for Weld Fume", American Welding Society, 550 North Le Jeune Road, Miami, Florida, 33135. Safety and Health Fact Sheets available from AWS at www.aws.org.

OSHA Publication 2206 (29 C.F.R. 1910), U.S. Government Printing Office, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954.

American Conference of Governmental Hygienists (ACGIH), Threshold Limit Values and Biological Exposure Indices, 6500 Glenway Ave., Cincinnati, Ohio 45211, USA.

NFPA 51B "Standard for Fire Prevention During Welding, Cutting and Other Hot Work" published by the National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169.

UK: WMA Publication 236 and 237, "Hazards from Welding Fume", "The arc welder at work, some general aspects of health and safety".

Germany: Unfallverhütungsvorschrift BGV D1, "Schweißen, Schneiden und verwandte Verfahren".

Canada: CSA Standard CAN/CSA-W117.2-01 "Safety in Welding, Cutting and Allied Processes".

This product has been classified according to the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

Explanation of risk phrases mentioned in this SDS:

R-phrases: None.

ESAB requests the users of this product to study this Safety Data Sheet (SDS) and become aware of product hazards and safety information. To promote safe use of this product a user should:

- notify its employees, agents and contractors of the information on this SDS and any product hazards/safety information.
- furnish this same information to each of its customers for this product.
- request such customers to notify employees and customers for the same product hazards and safety information.

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