



## II. Hazardous Ingredients

**IMPORTANT:** This section covers the materials from which this product is manufactured. The fumes and gases produced during normal use of these products are covered in Section V. The term **HAZARDOUS** should be interpreted as a term required and defined by Laws, Statutes or Regulations, and does not necessarily imply the existence of any hazard when the products are used as directed by **THE ESAB GROUP**.

Material	(CAS No.)	SARA	ACGIH TLV		OSHA - PEL	
			TWA (mg/m <sup>3</sup> )		TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
Technical Petrolatum	(8009-03-08)		Not Listed		Not Listed	
Zinc Chloride	(7646-85-7)	*	1 (Fume)	2	1 (Fume)	2

**NOTE:** In the ingredients table, an asterisk (\*) after the CAS number indicates a toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (SARA) and 40 CFR Part 372.

## III. Physical Data

<b>Physical State:</b>	Gas ( )	Liquid ( )	Solid (X)
<b>Boiling Point:</b>	337 ° C (639° F)		
<b>Specific Gravity:</b>	Not available.		
<b>Solubility in Water:</b>	Insoluble.		
<b>Percent Volatile by Volume:</b>	8%		
<b>Vapor Density (Air = 1):</b>	>1		
<b>Odor and Appearance:</b>	Yellow paste.		

## IV. Fire & Explosion Hazard

<b>Flash Point (C. O. C.) :</b>	282° C (540° F)
<b>Extinguishing Media:</b>	Dry chemical, CO <sub>2</sub> , or Foam.
<b>Special Fire Fighting Procedures:</b>	May release zinc oxide or zinc chloride fumes in fire.
<b>Unusual Fire and Explosion Hazards:</b>	Because hazardous gases may be present, wearing a NIOSH approved self-contained respirator may be required.



**Pre-existing Medical Conditions Aggravated by Overexposure:** Individuals with allergies or impaired respiratory function may have symptoms worsened by exposure to brazing fumes; however, such reaction cannot be predicted due to the variation in composition and quantity of the decomposition products.

**Emergency First Aid Measures:** ALWAYS CONTACT PHYSICIAN OR POISON CONTROL CENTER IN CASE OF MEDICAL EMERGENCY

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Seek medical attention.

**Skin Contact:** Wash hands with soap and water to remove residue. Remove contaminated clothing. If rash develops, consult a physician.

**Inhalation:** Remove victim to fresh air. If fumes, vapors or dusts are inhaled, call a physician.

**Ingestion:** Call a physician or your Poison Control Center. Advise of Section II.

**Carcinogenic Assessment (NTP Annual Report, IARC Monographs, Other):** NONE.

● **WARNING:** This product, when used for welding or cutting, produces fumes or gases which contain chemicals known to the State of California to cause birth defects and, in some cases, cancer. (California Health & Safety Code §25249.5 et seq.)

## VII. Precautions for Safe Handling and Use/Applicable Control Measures

Read and understand the manufacturer's instructions and the precautionary label on this product. See American National Standard Z-49.1, "Safety in Welding and Cutting," published by the American Welding Society, P. O. Box 351040, Miami, FL 33135 and OSHA Publication 2206 (29 C.F.R. 1910), U.S. Government Printing Office, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954 for more detail on many of the following:

**Respiratory Protection:** Use respirable fume respirator or air supplied respirator when welding in confined spaces or where local exhaust or ventilation does not keep exposure below TLV.

**Eye Protection:** Chemical safety goggles or welding goggles, appropriate to the procedure, should be worn.

**Ventilation:** Use enough ventilation, local exhaust at the arc, or both, to keep the fumes and gases below the TLV's in the worker's breathing zone and the general area. Train the welder to keep his head out of the fumes. Adequate ventilation should be used when material is in dusty or molten state.

**Protective Clothing and Equipment:** Full protective equipment normally used in braze/welding operation so as to prevent any contact. See ANSI Z-49.1. Use face shield if danger of splashing, molten metal. Train the welder not to touch live electrical parts and to insulate himself from work and ground.

**Procedure for Cleanup of Spills or Leaks:** Do not get on skin or in clothing. Avoid breathing mist and fumes. Shovel up all material into approved containers.

**Waste Disposal Methods:** Prevent waste from contaminating surrounding environment. Discard any product, residue, disposable container, or liner in an environmentally acceptable manner, in full compliance with Federal, State, and Local regulations.

**Precautions to be Taken in Storage and Handling:** Wash all equipment after handling. Wash hands thoroughly after handling to remove all residue. Store material under ambient conditions.

**Other Precautions and/or Special Hazards:** Remove and professionally clean contaminated clothing before re-use.

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The opinions expressed in this MSDS are those of qualified experts within **THE ESAB GROUP**. We believe that the information contained herein is current as of the date of this MSDS. Since the use of this information and these opinions and the conditions of use of these products are not within the control of **THE ESAB GROUP**, it is the user's obligation to determine the conditions of safe as directed by **THE ESAB GROUP**.