



# 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: MG QUIKFIX (Steel, Copper, Aluminum, Multi-Purpose)

MANUFACTURER/ MESSER – MG WELDING PRODUCTS SUPPLIER: N94 W14355 GARWIN MACE DRIVE

MENOMONEE FALLS, WI 53051 USA

**TELEPHONE NUMBER** (262) 532-4677 **FAX NUMBER:** (262) 255-5542

MG WELDING WEBSITE: www.messerwelding.com

**PRODUCT USE:** Polymercaptan Resins – (Quick Setting Machinable Compound)

# **SECTION 2: HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:** Chemically stable and inert. Does not pose a fire hazard as shipped. **Non-Flammable**. These products as shipped are non-hazardous, nonflammable, non-explosive, and non-reactive. In case of fire, use NIOSH/MSHA self contained breathing apparatus.

**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:** May cause slight headaches and dizziness.

**ACUTE HEALTH HAZARDS:** see Section 11

**CHRONIC HEALTH HAZARDS:** see Section 11

<u>WARNING:</u> avoid breathing fumes and gases when using this product in a confined space; they may dangerous to your health. Always use adequate ventilation and use appropriate personal protection equipment.

#### **GHS** classification

Hazard categories:

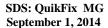
# 2, 4, 6, Tri (dimethylaminomethyl) phenol

Acute Tox. 4 \* Eve Irrit. 2

Skin Irrit. 2

# Phenol Epoxy Resin (Diglycidyl Ether of Bisphenol A)

Eye Irrit. 2 Skin Irrit. 2 Skin Sens. 1 Aquatic Chronic 2





#### **Hazard Statements:**

H302 Harmful if swallowed

H319 Causes serious eye irritation

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H411 Toxic to aquatic life with long lasting effects

#### **GHS** classification:

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

Pictograms: GHS 07 and GHS 09





GHS 07 - 2, 4, 6, Tri (dimethylaminomethyl) phenol

GHS 07, GHS 09 - Phenol Epoxy Resin (Diglycidyl Ether of Bisphenol A)

#### **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.

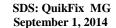
# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>IMPORTANT</u>: 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/m³)

INGREDIENTS	CAS NUMBER	OSHA PEL	ACGIH-TLV	Percent Ingredients (by Weight)
2, 4, 6, Tri				
(dimethylaminomethyl) phenol	90-72-2	Not listed	Not listed	0.5 - 1.5
Phenol Epoxy Resin				
(Diglycidyl Ether of Bisphenol A)	25068-38-6	Not listed	Not listed	14 - 15

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





CAS / EINECS NUMBER / HAZARD CLASSIFICATION FOR ABOVE INGREDIENTS

<u>INGREDIENTS</u>	CAS NUMBER	EINECS NUMBER	Hazard Classification per ECD 67/548/EEC
2, 4, 6, Tri (dimethylaminomethyl) phenol	90-72-2	202-013-9	Xn; R22 - Xi R36/38
Phenol Epoxy Resin (Diglycidyl Ether of Bisphenol A)	25068-38-6	500-033-5	Xi; R36/38 R43 N; R51-53

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**: Remove contact lenses if worn. 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 solution. If rash develops, see a physician. Get medical attention for irritations that persist.

**INGESTION:** Induce vomiting and 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: 1 Reactivity: 1

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

# HMIS HAZARD CLASSIFICATION:

Health: 1 Flammability: 1 Reactivity: 1

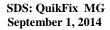
In case of fire, Use NIOSH/MSHA self contained breathing apparatus.

**EXTINGUISHING MEDIA:** water spray, foam, CO2, dry chemicals

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

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS DECOMPOSITION PRODUCTS: CO, aldehydes, acids, oxides of sulfur and nitrogen may be formed.





# SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: pick up and place in a suitable container for proper disposal.

**PERSONAL PRECAUTIONS:** safety glasses and rubber gloves.

**ENVIRONMENTAL PRECAUTIONS:** See Section 12 and 13

## **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 eat, drink, or smoke when using this product. Wash thoroughly with soap and water 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. Store at temperature below 90° F (32 °C) and away from children.

## 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 if working in confined space or if sanding or grinding. **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. Use respirable fume respirator or air supplied respirator when using in a confined space or where local exhaust or ventilation does not keep exposure below the TLV's. Use ventilation if sanding or grinding product.

EYE PROTECTION: Wear chemical safety goggles or safety glasses 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.

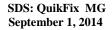
**EFFECTS OF OVEREXPOSURE** – use may create one or more of the following health hazards:

**FUMES AND GASES** can be dangerous to your health.

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

**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:** Two part putty stick **pH-Value**: > 8

Changes in the physical state: dries when heated or when mixed together Flash point: n.a.

Solubility in water: insoluble Specific gravity (water = 1): 0.95 **Boiling point**: n.a. **Odor:** Mercapatan **% Volatile:** < 1 %

# **SECTION 10: STABILITY AND REACTIVITY**

**GENERAL:** This item is only intended for use as repair epoxy putty.

**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. Do not heat product.

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/m³. 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** to welding fumes 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:** <u>LONG TERM (CHRONIC) OVEREXPOSURE</u> is believed by some investigators to affect pulmonary functions. **PRIMARY ROUTE OF ENTRY** is the respiratory system.

Avoid direct inhalation of fumes during grinding or sanding and avoid inhalation of dust. 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**

WASTE DISPOSAL METHOD: Dispose of any rod and waste residues in accordance with EPA or local regulations.

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. It is not possible to give this product a waste code number according to the European waste catalogue because only the intended use of the user consents the assignment of a specific code number.

## 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 and keep product dry. Do not remove product identification label or warning label. Keep material from freezing and away from heat.

## **SECTION 15: REGULATORY INFORMATION**

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

See American National Standard Z49.1, Safety in Welding and Cutting, published by the "American Welding Society," 550 N.W. LeJeune Road, Miami, FL 33126 and OSHA Publication 2206 (29CFR 1910), U.S. Government Printing Office, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954 for more detail on safe use of product.

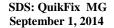
**U.S. EPA TSCA** (**TOXIC SUBSTANCE CONTROL ACT**): All constituents of these products are on the TSCA inventory list or are excluded from listing.

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.

INGREDIENT NAME	CAS NUMBER	DISCLOSURE THRESHOLD
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





#### Package Labeling:

Additional advice on labeling:

As a finished article the product does not need to be labeled in accordance with EC-directives or respective national laws.

International rules may vary and the appropriate regulations should be followed as defined by the country where the product is used.

## **SECTION 16: OTHER INFORMATION**

This Safety Data Sheet has been revised due to modifications to several paragraphs and/or new format. Prepared by MG Welding Products, USA.

## R-phrases

## 2, 4, 6, Tri (dimethylaminomethyl) phenol

R36 – Harmful if swallowed

R36/38 – Irritating to eyes and skin

# Phenol Epoxy Resin (Diglycidyl Ether of Bisphenol A)

R36/38 Irritating to eyes and skin

R43 May cause sensitization by skin contact

R51-53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

# S-phrases

# 2, 4, 6, Tri (dimethylaminomethyl) phenol

S2 Keep out of the reach of children

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S28 After contact with skin, wash immediately with plenty of soap and water

## Phenol Epoxy Resin (Diglycidyl Ether of Bisphenol A)

S2 Keep out of the reach of children

S28 After contact with skin, wash immediately with plenty of soap and water

S37/39 Wear suitable gloves and eye/face protection

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets

#### **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.