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## ACCORDING TO OSHA HCS (29 CFR 1910.1200)

## **SECTION 1: IDENTIFICATION**

Product identifier used on the label M-Bond 43-B

Other means of identification Not applicable

Recommended use of the chemical and restrictions

on use

Recommended use Adhesives.
Restrictions on use None known.

Details of the supplier of the safety data sheet

Supplier VISHAY MEASUREMENTS GROUP, INC.

Address of Supplier Post Office Box 27777
Raleigh, NC 27611

USA

 Telephone
 +1 919-365-3800

 Fax
 +1 919-365-3945

 E-Mail (competent person)
 mm.us@vishaypg.com

Emergency telephone number 1-800-424-9300 CHEMTREC (24 hours)

# **SECTION 2: HAZARD(S) IDENTIFICATION**

Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200

Physical hazards Flammable Liquid, Category 2
Health hazards Aspiration hazard, Category 1

Skin Corrosion/Irritation, Category 2 Skin Sensitisation, Category 1 Eye Irritation, Category 2

Specific target organ toxicity — single exposure, Category 3 Specific target organ toxicity — single exposure, Category 2 Specific target organ toxicity — repeated exposure, Category 2 Hazardous to the aquatic environment, Chronic, Category 3

Hazard Symbol

Environmental hazards







Signal Word(s) DANGER

Hazard Statement(s) Highly flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs.

Causes damage to organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

Precautionary Statement(s) Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

Keep container tightly closed.

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Do not breathe vapour.

Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor if you feel unwell.

IF exposed or concerned: Call a POISON CENTER/doctor.

Other hazards None known

Percent of the mixture consists of ingredient(s) of unknown acute toxicity:

0%

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

Substances Not applicable

Mixtures Substances in preparations / mixtures

Chemical identity of the substance	%W/W	CAS No.	EC No.	Hazard classification
Methyl ethyl ketone	35 - 40	78-93-3	201-159-0	Flammable Liquid, Category 2 Eye Irritation, Category 2 Specific target organ toxicity — single exposure, Category 3
Xylene	20 - 25	1330-20-7	215-535-7	Flammable Liquid, Category 3 Acute toxicity, Category 4 – Dermal Acute toxicity, Category 4 – Inhalation Skin Corrosion/Irritation, Category 2 Aspiration hazard, Category 1 Eye Irritation, Category 2 Specific target organ toxicity — single exposure, Category 3 Specific target organ toxicity — repeated exposure, Category 2
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight < 700)	15 - 20	25068-38-6	500-033-5	Skin Corrosion/Irritation, Category 2 Skin Sensitisation, Category 1 Eye Irritation, Category 2 Hazardous to the aquatic environment, Chronic, Category 2
Diacetone alcohol	10 - 15	123-42-2	204-626-7	Flammable Liquid, Category 3  Eye Irritation, Category 2  Specific target organ toxicity — single exposure, Category 3
4,4'-Sulfonydianiline	5 - 10	80-08-0	201-248-4	Acute toxicity, Category 4 – Oral Specific target organ toxicity — single exposure, Category 2 Specific target organ toxicity — repeated exposure, Category 2 Hazardous to the aquatic environment, Chronic, Category 2
Rheological Additive (Quaternary ammonium compounds, benzyl (hydrogenated tallow alkyl) dimethyl, chlorides, compds. with hectorite)	< 2	71011-26-2	275-126-4	Not classified

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# SECTION 4: FIRST AID MEASURES

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#### Description of first aid measures

Self-protection of the first aider

Inhalation

Skin Contact

Eye Contact

Ingestion

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed

Do not breathe vapour. Wear suitable protective clothing. Wear suitable respiratory protective equipment if exposure to high levels of material are likely.

Do not use mouth-to-mouth resuscitation.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Apply artificial respiration only if patient is not breathing or under medical supervision. Call a POISON CENTER/doctor if you feel unwell. IF ON SKIN: Remove contaminated clothing and wash all affected areas with plenty of water. Contaminated clothing should be thoroughly cleaned. If skin

irritation or rash occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get

medical advice/attention.

IF SWALLOWED: Rinse mouth. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs.

Immediately call a POISON CENTER/doctor.

May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness and dizziness. May cause damage to organs through prolonged or repeated exposure.

Treat symptomatically.

IF SWALLOWED: Do NOT induce vomiting.

## **SECTION 5: FIRE-FIGHTING MEASURES**

## **Extinguishing media**

Suitable Extinguishing Media

Unsuitable extinguishing Media

Special hazards arising from the substance or mixture

Special protective equipment and precautions for fire fighters

As appropriate for surrounding fire. Extinguish with carbon dioxide, dry chemical, foam or waterspray.

Do not use water jet. Direct water jet may spread the fire.

Highly flammable liquid and vapour. May decompose in a fire giving off toxic fumes. Carbon dioxide and Carbon monoxide. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. Sealed containers may rupture explosively if hot.

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so. Do not breathe vapour. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. See Section: 8. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Environmental precautions** 

Methods and material for containment and cleaning up

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body. Ensure suitable personal protection (including respiratory protection) during removal of spillages. Contain spillages. Use non-sparking equipment when picking up flammable spill. Use waterspray to 'knock down' vapour. Adsorb

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spillages onto sand, earth or any suitable adsorbent material. Do NOT absorb in saw-dust or other combustible absorbents. Transfer to a container for disposal. Ventilate the area and wash spill site after material pick-up is complete. Dispose of this material and its container as hazardous waste.

## **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Do not

breathe vapour. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static

discharge.

Ambient.

Conditions for safe storage, including any

incompatibilities

Ground/bond container and receiving equipment. Keep only in original container. Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep away from direct sunlight.

Storage temperature

Storage life

Incompatible materials

Stable under normal conditions.

Keep away from: Oxidizing agents, Reducing agents, Amines, Ammonia, strong

bases, Acids and Isocyanates.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Occupational Exposure Limits**

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Ethyl methyl ketone	78-93-3	200	590	300^	885^	NIOSH
		200	590	-	-	OSHA
		200	-	300	-	ACGIH
Xylene	1330-20-7	100	435	150^	655^	NIOSH
		100	435	-	-	OSHA
		100	-	150	-	ACGIH, A4
Diacetone alcohol	123-42-2	50	240	-	-	NIOSH
		50	240	-	-	OSHA
		50	-	-	-	ACGIH

Note: OSHA PELs 1910.1000 TABLE Z-1/ NIOSH RELs / ACGIH TLVs

A4: Not Classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of the lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories.

The other components listed in Section 3 do not have occupational exposure limits.

## **Biological Exposure Indices**

SUBSTANCE	CAS No.	Determinant	Biological Exposure Indices	Sampling Time	Note
Ethyl methyl ketone	78-93-3	Ethyl methyl ketone in urine	2 mg/L	End of shift	Ns

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<sup>^</sup>NIOSH average value of 15 minutes.

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Xylene, o-,m-,p- or mixed isomers  1330-20-7  Methylhippuric acids urine.	in 15 g/g Creatinine	End of shift	-
---	----------------------	--------------	---

Source: 2015 ACGIH Biological Exposure Indicies (BEIs)

Ns - Nonspecific

The other components listed in Section 3 do not have biological exposure indicies.

Appropriate engineering controls

Ensure adequate ventilation or use appropriate containment. Atmospheric levels should be controlled in compliance with the occupational exposure limit. Local exhaust recommended. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Eyewash bottles should be available.

Individual protection measures, such as personal protective equipment (PPE)

General hygiene measures for the handling of chemicals are applicable. Avoid contact with skin, eyes or clothing. Do not breathe vapour. Wash hands before breaks and after work. Keep work clothes separately. Contaminated clothing should be laundered before reuse. Do not eat, drink or smoke at the work place.

Eye/face protection



Wear eye protection with side protection (EN166). Wear protective eye glasses for protection against liquid splashes. Recommended: Safety

spectacles/goggles/full face shield.

Skin protection



Hand protection: Wear impervious gloves (EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Recommended: Neoprene.

Body protection: Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection



In case of inadequate ventilation wear respiratory protection. Open system(s): Wear suitable respiratory protective equipment. Recommended: A self contained breathing apparatus may be appropriate.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### Information on basic physical and chemical properties

**Appearance** 

Odor

Odor Threshold

Ηα

Not available. Not established. -86°C Melting Point/Freezing Point

Initial boiling point and boiling range

Flash Point

Evaporation rate (Butyl acetate = 1)

Flammability (solid, gas)

Upper/lower flammability or explosive limits

Not applicable - Liquid Flammable Limits (Lower) (%v/v): 1 Flammable Limits (Upper) (%v/v): 11.4

78 @ 20°C (mmHg)

Amber Coloured liquid.

Acetone Odour

-9 °C [Open cup]

2.7 (BuAc = 1)

80°C

Vapour pressure Vapour density Relative density

0.92 (H2O = 1)Solubility(ies)

Partition coefficient: n-octanol/water Auto-ignition temperature

Slightly soluble (Water): < 20%

Not available. Not available.

3.5 (Air = 1)

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Decomposition Temperature Not available. Viscosity Not available.

## **SECTION 10: STABILITY AND REACTIVITY**

ReactivityStable under normal conditions.Chemical stabilityStable under normal conditions.

Possibility of hazardous reactions Highly flammable liquid and vapour. Vapours are heavier than air and may travel

considerable distances to a source of ignition and flashback. Avoid contact with: Strong oxidising agents (May cause fire).

Hazardous polymerisation will not occur.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Keep away from direct sunlight.

Incompatible materials Keep away from: Oxidizing agents, Reducing agents, Amines, Ammonia, strong

bases, Acids and Isocyanates.

Hazardous decomposition product(s) May decompose in a fire giving off toxic fumes. Carbon dioxide and Carbon

monoxide.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

**Acute toxicity - Skin Contact** 

Information on toxicological effects (Substances in preparations / mixtures)

Acute toxicity - Ingestion Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg

bw/day.

Acute toxicity - Inhalation Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 20.0 mg/l. Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg

bw/day.

Skin corrosion/Irritation Skin Corrosion/Irritation, Category 2; Causes skin irritation.

Serious eye damage/irritation Eye Irritation, Category 2; Causes serious eye irritation.

Respiratory or skin sensitization Skin Sensitisation, Category 1; May cause an allergic skin reaction.

Germ cell mutagenicity

Based upon the available data, the classification criteria are not met.

Reproductive toxicity

Based upon the available data, the classification criteria are not met.

Based upon the available data, the classification criteria are not met.

Based upon the available data, the classification criteria are not met.

Stort - single exposure

Specific target organ toxicity — single exposure, Category 2; May cause

damage to organs.

Specific target organ toxicity — single exposure, Category 3; May cause

respiratory irritation. May cause drowsiness or dizziness.

STOT - repeated exposure Specific target organ toxicity — repeated exposure, Category 2; May cause

damage to organs through prolonged or repeated exposure.

Aspiration hazard Aspiration hazard, Category 1; May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

Information on likely routes of exposure

InhalationPossible – accidental exposureIngestionUnlikely – accidental exposureSkin ContactPossible – accidental exposureEye ContactUnlikely – accidental exposure

Early onset symptoms related to exposure May be fatal if swallowed and enters airways. Causes skin irritation. May cause

an allergic skin reaction. Causes serious eye irritation. May cause respiratory

irritation. May cause drowsiness and dizziness.

**Delayed health effects from exposure**May cause damage to organs through prolonged or repeated exposure.

Other information

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NTP Report on Carcinogens

IARC Monographs Xylene: Group 3 - Not classifiable as to its carcinogenicity to humans

All chemicals are not listed

4,4'-Sulfonydianiline: Group 3 - Not classifiable as to its carcinogenicity to

humans

**OSHA** Designated Carcinogen All chemicals are not listed

## **SECTION 12: ECOLOGICAL INFORMATION**

Persistence and degradability

**Ecotoxicity** Aquatic Chronic 3: Harmful to aquatic life with long lasting effects.

> Estimated Mixture LC50 >10 ≤ 100 mg/l (Fish) Part of the components are poorly biodegradable.

Bioaccumulative potential The product has low potential for bioaccumulation.

Mobility in soil The product is predicted to have low mobility in soil. (Insoluble in water.) Other adverse effects

None known.

#### SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods This material and its container must be disposed of as hazardous waste. Send

> after pre-treatment to a appropriate hazardous waste incinerator facility according to legislation. Containers of this material may be hazardous when

empty since they retain product residue.

**Additional Information** Dispose of contents in accordance with local, state or national legislation.

## **SECTION 14: TRANSPORT INFORMATION**

ADR/RID **IMDG** IATA **UN** number UN 1133 **UN 1133** UN 1133

ADHESIVES containing **UN proper shipping name** ADHESIVES containing ADHESIVES containing flammable liquid flammable liquid flammable liquid

Transport hazard class(es) 3 3 3

Ш Packing group Ш Ш

**Environmental hazards** Environmentally Not classified as a Environmentally hazardous substance Marine Pollutant. hazardous substance Not applicable.

Transport in bulk according to Annex II of MARPOL

73/78 and the IBC Code

Special precautions for user See Section: 2

#### SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture **US Federal Regulations** 

TSCA (Toxic Substance Control Act) Methyl ethyl ketone: Subject to 25,000 lb reporting threshold

Xylene: Subject to 25,000 lb reporting threshold

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average

molecular weight < 700): Exempt from reporting under CDR Diacetone Alcohol: Subject to 25,000 lb reporting threshold 4,4'-Sulfonydianiline: Subject to 25,000 lb reporting threshold

Rheological Additive (Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with hectorite): Subject to 25,000 lb

reporting threshold

EPCRA/SARA Section 302 Extremely Hazardous

Substances

EPCRA Section 313 Toxics Release Inventory (TRI)

Program

NIOSH Occupational Carcinogen List OSHA List of highly hazardous chemicals, toxics and

NTP Report on Carcinogens (RoC) List

All chemicals are not listed Xylene: De Minimis limit: 1%

All chemicals are not listed All chemicals are not listed

All chemicals are not listed

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Poison Prevention Packaging Act Xylene: Substance requiring special packaging - Solvents for paint or other

similar surface-coating material

**US State Regulations** 

California State, Proposition 65 List

California State, Safer Consumer Products Regulations

Maine State, Toxic Chemicals in Children's Products Act

New Jersey State Worker and Community RTK Act

Pennsylvania State, Worker and Community RTK Act

Rhode Island State, Hazardous Substances RTK Act

Non-Regional

IARC Monographs, List of Classifications

All chemicals are not listed

Methyl ethyl ketone: Candidate Chemicals List

Xylene: Initial Candidate Chemicals List

Methyl ethyl ketone: RTKHSL. SHHSL

Xylene: RTKHSL. SHHSL

Diacetone Alcohol: RTKHSL

All chemicals are not listed

Methyl ethyl ketone: Hazardous Substance List. Environmental Hazard List

Xylene: Hazardous Substance List. Environmental Hazard List Diacetone Alcohol: Hazardous Substance List

Methyl ethyl ketone: Hazardous Substance List

Xylene: Hazardous Substance List

Diacetone Alcohol: Hazardous Substance List

Xylene: Group 3

4,4'-Sulfonydianiline: Group 3

#### **SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: Updated substance / mixture classification. New SDS Regulation compliant with HazCom 2012 format, all sections have been updated to include new information. Please review SDS with care.

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#### References:

Existing Safety Data Sheet (SDS), EU Data: Harmonised Classification(s) for Ethyl methyl ketone (CAS# 78-93-3), Xylene (CAS# 1330-20-7), Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight < 700) (CAS# 25068-38-6), Diacetone alcohol (CAS# 123-42-2) and 4,4'-Sulfonydianiline (CAS# 80-80-0), Existing ECHA registration(s) for Ethyl methyl ketone (CAS# 78-93-3), Xylene (CAS# 1330-20-7), Diacetone alcohol (CAS# 123-42-2) and 4,4'-Sulfonydianiline (CAS# 80-80-0).

GHS Classification of the substance or mixture	Classification Procedure
Flammable Liquid, Category 2	Flash Point [Open cup] Test Result/ Boiling Point (°C)
Skin Corrosion/Irritation, Category 2	Threshold Calculation
Skin Sensitisation, Category 1	Threshold Calculation
Eye Irritation, Category 2	Threshold Calculation
Aspiration hazard, Category 1	Estimated Viscosity
Specific target organ toxicity — single exposure, Category 3	Threshold Calculation
Specific target organ toxicity — single exposure, Category 2	Threshold Calculation
Specific target organ toxicity — repeated exposure,	Threshold Calculation
Category 2	
Hazardous to the aquatic environment, Chronic, Category 3	Summation Calculation

#### LEGEND

ACGIH: American Conference of Governmental Industrial Hygienists

BEI: Biological Exposure Indices (ACGIH)

IARC: International Agency for Research on Cancer

Irr: Irritation

NIOSH: National Institute of Occupational Safety and Health

NTP: National Toxicology Program

OSHA: The Occupational Safety & Health Administration

PBT: Persistent, Bioaccumulative and Toxic

PEL: Permissible exposure limit

**REL**: Recommended exposure limit

SCL: Specific Concentration Limit

Skin": Risk of overexposure via dermal contact

STEL: Short Term Exposure Limit

TLV: Threshold Limit value

TSCA: Toxic Substance Control Act TWA: Time Weighted Average **URT**: Upper respiratory tract

vPvB: very Persistent and very Bioaccumulative

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Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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