

SAFETY DATA SHEET

Version: 01
Date of Issue: 23/02/2021
Date of First Issue: 23/02/2021

www.vishaypg.com

ACCORDING TO: Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia, 2020) & GHS 7

SECTION 1: IDENTIFICATION

Product identifier used on the label	M-Bond AE Resin
Other means of identification	None
Recommended use of the chemical and restrictions on use	
Recommended use	Adhesives.
Restrictions on use	None known.
Supplier/Manufacturer name, address and telephone number	
Supplier/Manufacturer	VISHAY MEASUREMENTS GROUP, INC.
Address	Post Office Box 27777 Raleigh, NC 27611 USA
Telephone	+1 919-365-3800
Fax	+1 919-365-3945
E-Mail (competent person)	mm.us@vpgsensors.com
Importer/Distributor name, address and telephone number	To be added by Australian importer/distributor
Name	
Address	
Telephone	
Emergency telephone number	61-290372994 (for spills and releases) CHEMTREC (24 hours)

SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the substance or mixture

In accordance with the Safe Work Australia model Work Health and Safety Regulations (2020) & GHS 7	Skin corrosion/irritation, Category 2 Skin sensitization, Category 1 Eye Damage/Irritation, Category 1 Germ cell mutagenicity, Category 2 Specific target organ toxicity — single exposure, Category 2 Hazardous to the aquatic environment, Acute, Category 2 Hazardous to the aquatic environment, Chronic, Category 2
---	--

Label elements

Hazard Symbol



Health hazard



Corrosion



Exclamation mark



Environment

Signal Word(s)

DANGER

Hazard Statement(s)

H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H341: Suspected of causing genetic defects.
H371: May cause damage to organs.
H411: Toxic to aquatic life with long lasting effects.

SAFETY DATA SHEET

Version: 01
Date of Issue: 23/02/2021
Date of First Issue: 23/02/2021

www.vishaypg.com

ACCORDING TO: Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia, 2020) & GHS 7

Precautionary Statement(s)

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe vapour.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352: IF ON SKIN: Wash with plenty of water.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P308+P311: IF exposed or concerned: Call a POISON CENTER/doctor.
P273: Avoid release to the environment.
P391: Collect spillage.

Other Hazards

None assigned

Other Hazards that do not Result in Classification

None Known

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
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane Synonym(s): Bisphenol A, diglycidyl ether	>60	1675-54-3	216-823-5	Skin corrosion/irritation, Category 2 Skin sensitization, Category 1 Eye Damage/Irritation, Category 2A Hazardous to the aquatic environment, Chronic, Category 2
1-Chloro-4 Trifluoromethyl Bisphenol A Epoxy Resin Synonym(s): Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]	15 - <25	25085-99-8	607-537-5	Skin corrosion/irritation, Category 2 Skin sensitization, Category 1 Eye Damage/Irritation, Category 2 Hazardous to the aquatic environment, Chronic, Category 2
2,3-Epoxypropyl o-tolyl ether Synonym(s): Oxirane, [(2-methylphenoxy)methyl]-; o-Cresol, glycidyl ether	< 5	2210-79-9	218-645-3	Skin corrosion/irritation, Category 2 Skin sensitization, Category 1A Germ cell mutagenicity, Category 2 Hazardous to the aquatic environment, Chronic, Category 2
Resorcinol Synonym(s): 1,3-Benzenediol; m-Dihydroxybenzene	< 5	108-46-3	203-585-2	Acute toxicity (oral), Category 4 Skin corrosion/irritation, Category 2 Skin sensitization, Category 1 Eye Damage/Irritation, Category 1 Specific target organ toxicity — single exposure, Category 1 (central nervous system and blood effects) Specific target organ toxicity — single exposure, Category 2 (respiratory effects) Hazardous to the aquatic environment, Acute, Category 1 Hazardous to the aquatic environment, Chronic, Category 3

SECTION 4: FIRST AID MEASURES



Description of first aid measures

First aid facilities

Eyewash facilities should be stationed close to workplace where possible.

SAFETY DATA SHEET

Version: 01
Date of Issue: 23/02/2021
Date of First Issue: 23/02/2021

www.vishaypg.com

ACCORDING TO: Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia, 2020) & GHS 7

Self-protection of the first aider	Use personal protective equipment as required. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. Avoid all contact. Do not breathe vapour.
Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/attention.
Skin Contact	IF ON SKIN: Remove contaminated clothing and wash all affected areas with plenty of water. If irritation (redness, rash, blistering) develops, get medical attention. IF exposed or concerned: Get medical advice/attention.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
Ingestion	IF SWALLOWED: Rinse mouth. Make victim drink plenty of water. Do not induce vomiting unless instructed to do so by medical personnel. Call a POISON CENTER/doctor if you feel unwell. IF exposed or concerned: Get medical advice/attention.
Most important symptoms and effects, both acute and delayed	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing genetic defects. May cause damage to organs. Treat symptomatically.
Indication of immediate medical attention and special treatment needed, if necessary	
Notes to a physician:	IF IN EYES: Obtain prompt consultation, preferably from an ophthalmologist. Following severe exposure the patient should be kept under medical review for at least 48 hours.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media	
Suitable Extinguishing Media	As appropriate for surrounding fire. Extinguish with carbon dioxide, dry chemical, foam or waterspray.
Unsuitable extinguishing Media	Do not use water jet. Direct water jet may spread the fire.
Special hazards arising from the chemical	May decompose in a fire giving off toxic fumes. Decomposes in a fire giving off toxic fumes: Phenolics, Carbon monoxide and Carbon dioxide.
Special protective equipment and precautions for fire fighters	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. Do not allow to enter drains, sewers or watercourses.
Hazchem Code	●3Z

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Stop leak if safe to do so. Use personal protective equipment as required. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe vapour. Avoid all contact. Do not ingest. If swallowed then seek immediate medical assistance. Isolate the area and allow vapours to disperse.
Environmental precautions	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.
Methods and material for containment and cleaning up	Absorb spillages onto sand, earth or any suitable adsorbent material. 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	Avoid all contact. Do not breathe vapour. Ensure adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke
--------------------------------------	--

SAFETY DATA SHEET

Version: 01
Date of Issue: 23/02/2021
Date of First Issue: 23/02/2021

www.vishaypg.com

ACCORDING TO: Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia, 2020) & GHS 7

Conditions for safe storage, including any incompatibilities

Storage temperature
Storage life
Incompatible materials

when using this product. Wash hands before breaks and after work. Contaminated clothing should be laundered before reuse. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Keep away from heat, sources of ignition and direct sunlight. Ambient. Keep at temperature not exceeding (°C): 27 Stable under normal conditions. Keep away from: Flammable liquids, Strong Oxidizing agents, Corrosive Substances, Strong Acids and strong mineral and organic bases, especially primary and secondary aliphatic amines.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Limits

Chemical name	Synonym(s)	CAS No.	TWA (ppm)	TWA (mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Advisory carcinogen category	Other advisory information	Notes
Resorcinol	m-Dihydroxybenzene	108-46-3	10	45	20	90	-	-	-

Source: Safe Work Australia Workplace Exposure Standards for Airborne Contaminants (2019)

Biological exposure indices

Not established

Appropriate engineering controls

Ensure adequate ventilation or use appropriate containment. Atmospheric levels should be controlled in compliance with the occupational exposure limit. A washing facility/water for eye and skin cleaning purposes should be present.

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

General hygiene measures for the handling of chemicals are applicable. Avoid all contact. 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 protective eye glasses for protection against liquid splashes. Wear eye protection with side protection (EN166).

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.

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. A suitable mask with filter type A (EN141 or EN405) may be appropriate.

Thermal hazards

Not applicable.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

SAFETY DATA SHEET

Version: 01
Date of Issue: 23/02/2021
Date of First Issue: 23/02/2021

www.vishaypg.com

ACCORDING TO: Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia, 2020) & GHS 7

Colour	Clear amber Colour
Odour	Faint Epoxy Odour
Melting point and freezing point	Not established.
Boiling point or initial boiling point and boiling range	Not established.
Flammability	Not applicable - Liquid
Lower and upper explosion limit or lower and upper flammability limit	Not established.
Flash point	Not established.
Auto-ignition temperature	Not established.
Decomposition temperature	Not established.
pH	Not established.
Kinematic viscosity	Not established.
Solubility	Not established. The product is essentially insoluble in water.
Partition coefficient n-octanol/water (log value)	Not established.
Vapour pressure	1 @ 118°C (mmHg)
Density and Relative density	1.15 (H ₂ O = 1)
Relative vapour density	>3.8 (Air = 1)
Particle characteristics	Not applicable (Liquid)
Additional parameters	
Evaporation rate	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions. May decompose if heated.
Possibility of hazardous reactions	Hazardous polymerisation will not occur.
Conditions to avoid	Keep away from heat, sources of ignition and direct sunlight. Keep at temperature not exceeding (°C): 27
Incompatible materials	Flammable liquids, Strong Oxidizing agents, Corrosive Substances, Strong Acids and strong mineral and organic bases, especially primary and secondary aliphatic amines.
Hazardous decomposition product(s)	Decomposes in a fire giving off toxic fumes: Phenolics, Carbon monoxide and Carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

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.
Inhalation	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 20.0 mg/l.
Dermal	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.
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	Skin corrosion/irritation - Category 2. EU Harmonised Classification Slightly irritating to skin. (rabbit) (OECD 404)
1-Chloro-4 Trifluoromethyl Bisphenol A Epoxy Resin	Skin corrosion/irritation - Category 2 No data. EU classification and labelling inventory, ≥ 770 Notifiers
2,3-Epoxypropyl o-tolyl ether	Skin corrosion/irritation - Category 2. EU Harmonised Classification Not irritating to skin (rabbit) (OECD 404)

SAFETY DATA SHEET

Version: 01
Date of Issue: 23/02/2021
Date of First Issue: 23/02/2021

www.vishaypg.com

ACCORDING TO: Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia, 2020) & GHS 7

Serious eye damage/irritation	Resorcinol: Skin corrosion/irritation - Category 2. EU Harmonised Classification Test Result: Irritating to skin. (in vivo; FHSLA) Eye Damage/Irritation, Category 1; Causes serious eye damage.
Respiratory or skin sensitization	Resorcinol: Eye Damage/Irritation, Category 1. Test Result: Causes serious eye damage. (in vivo; FHSLA) (Flickinger, 1976) Skin sensitization, Category 1. May cause an allergic skin reaction.
	Bis-[4-(2,3-epoxypropoxy)phenyl] propane: Skin Sens. 1. EU Harmonised Classification Positive - sensitising. (Mouse) (OECD 429)
	Bisphenol A Diglycidyl Ether: Skin Sens. 1 No data. EU classification and labelling inventory, ≥ 770 Notifiers
	2,3-Epoxypropyl o-tolyl ether: Skin Sens. 1. EU Harmonised Classification Test Result: Positive (OECD 406)
Germ cell mutagenicity	Resorcinol: Skin Sens. 1 Test Result: Positive (OECD 429) Germ cell mutagenicity, Category 2; Suspected of causing genetic defects.
	2,3-Epoxypropyl o-tolyl ether: Germ cell mutagenicity, Category 2. EU Harmonised Classification. Test Result: Positive (OECD 471)
Carcinogenicity	Based upon the available data, the classification criteria are not met.
Reproductive toxicity	Based upon the available data, the classification criteria are not met.
STOT - single exposure	Resorcinol: STOT - single exposure, Category 2; May cause damage to organs – oral. STOT - single exposure, Category 1: Causes damage to organs. Oral: central nervous system, blood effects. Maximum non-lethal dose: 200 mg/kg bw. STOT - single exposure, Category 2: May cause damage to organs - oral. Respiratory system.
STOT - repeated exposure	Based upon the available data, the classification criteria are not met.
Aspiration hazard	Based upon the available data, the classification criteria are not met.
Information on likely routes of exposure	
Inhalation	Possible route of exposure.
Ingestion	Unlikely route of exposure.
Skin Contact	Possible route of exposure.
Eye Contact	Unlikely route of exposure.
Early onset symptoms related to exposure	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause damage to organs.
Delayed health effects from exposure	Suspected of causing genetic defects. May cause damage to organs.
Exposure levels and health effects	See section 8
Interactive effects	None Known
Other information	None Known
NTP Report on Carcinogens	No components listed.
IARC Monographs	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane: Group 3 Resorcinol: Group 3

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	Hazardous to the aquatic environment, Acute, Category 2. Toxic to aquatic life. Hazardous to the aquatic environment, Chronic, Category 2. Toxic to aquatic life with long lasting effects. Estimated Mixture LC50 1 to ≤ 10 mg/l (Fish)
	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane: Hazardous to the aquatic environment, Chronic, Category 2 Acute: LC50 (fish) mg/l (96 hour) 1.5 (OECD 203)
	1-Chloro-4 Trifluoromethyl Bisphenol A Epoxy Resin: Hazardous to the aquatic environment, Chronic, Category 2

SAFETY DATA SHEET

Version: 01
Date of Issue: 23/02/2021
Date of First Issue: 23/02/2021

www.vishaypg.com

ACCORDING TO: Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia, 2020) & GHS 7

	2,3-Epoxypropyl o-tolyl ether	No data. EU classification and labelling inventory, ≥ 770 Notifiers Hazardous to the aquatic environment, Chronic, Category 2 LC50 (fish) mg/l 2.8 – 5.1 (OECD 203)
	Resorcinol:	Hazardous to the aquatic environment, Acute, Category 1. EU Harmonised Classification. EC50 (Daphnia magna) mg/l <1 (OECD 202) Hazardous to the aquatic environment, Chronic, Category 3
Persistence and degradability		No data for the mixture as a whole.
	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	Not readily biodegradable Water % Degradation: 5% (28 days) (OECD 301 F)
	1-Chloro-4 Trifluoromethyl Bisphenol A Epoxy Resin	No data
	2,3-Epoxypropyl o-tolyl ether	Not readily biodegradable Water % Degradation: ~1 - ~4% (28 days) (OECD 301 B)
	Resorcinol:	Readily biodegradable. Water % Degradation: 100% (14 days) (OECD 301 C)
Bioaccumulative potential		No data for the mixture as a whole.
	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	The substance has low potential for bioaccumulation. Bioconcentration factor (BCF) : 31 ((Q)SAR) (Unnamed publication, 2010)
	1-Chloro-4 Trifluoromethyl Bisphenol A Epoxy Resin	No data
	2,3-Epoxypropyl o-tolyl ether	No data - Can be waived on basis of: Log Koc : ≤ 3
	Resorcinol:	The substance has low potential for bioaccumulation. Bioconcentration factor (BCF) : 3.16 (EPA, 2000)
Mobility in soil		No data for the mixture as a whole.
	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	The substance has moderate mobility in soil. Log Koc: 2.65 ((Q)SAR) (Unnamed publication, 2010)
	1-Chloro-4 Trifluoromethyl Bisphenol A Epoxy Resin	No data
	2,3-Epoxypropyl o-tolyl ether	The substance has moderate mobility in soil. Log Koc: 2.32 (OECD 121)
	Resorcinol:	The substance has high mobility in soil. Log Koc: 0.98 (Schuurmann, G et al. 2006)
Other adverse effects		None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Safe handling and disposal methods	This material and its container must be disposed of as hazardous waste. Dispose of wastes in an approved waste disposal facility. Do not reuse empty containers.
Disposal of contaminated packaging	Containers of this material may be hazardous when empty since they retain product residue. Handle contaminated packages in the same way as the substance itself.
Environmental regulations	Avoid release to the environment. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Dispose of contents in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

	ADG	IMDG	IATA/ICAO
UN number	UN 3082	UN 3082	UN 3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane; 1-Chloro-4 Trifluoromethyl Bisphenol A Epoxy Resin; 2,3-Epoxypropyl o-tolyl ether)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane; 1-Chloro-4 Trifluoromethyl Bisphenol A Epoxy Resin; 2,3-Epoxypropyl o-tolyl ether)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane; 1-Chloro-4 Trifluoromethyl Bisphenol A Epoxy Resin; 2,3-Epoxypropyl o-tolyl ether)
Transport hazard class(es)	9	9	9
Packing group	III	III	III

SAFETY DATA SHEET

Version: 01
Date of Issue: 23/02/2021
Date of First Issue: 23/02/2021

www.vishaypg.com

ACCORDING TO: Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia, 2020) & GHS 7

Environmental hazards	Environmentally hazardous substance.	Classified as a Marine Pollutant.	Environmentally hazardous substance
Special precautions for user	See Section: 2		
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.		
Hazchem code	●3Z		
Additional Information	Recommended: Road/Rail/Sea transport only.		

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations (for example)

Montreal Protocol/Stockholm Convention/ Rotterdam Convention/ Basel Convention / MARPOL

All chemicals are not listed

National Regulations

Australian Inventory of Chemical Substances (AICS)

All components are listed on AICS

NICNAS - Priority Existing Chemicals

All chemicals are not listed

NICNAS - IMAP Framework

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane: Tier II: Human Health Assessment

1-Chloro-4 Trifluoromethyl Bisphenol A Epoxy Resin: Tier I: Human Health Assessment

2,3-Epoxypropyl o-tolyl ether: Tier I: Environment Assessment; Tier II: Human Health Assessment

Resorcinol: Tier II: Human Health Assessment

NICNAS - High Volume Industrial Chemical List

All chemicals are not listed

National Pollutant Inventory

All chemicals are not listed

The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Resorcinol: Schedule 6; Appendix E, Part 2; Appendix F, Part 3

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: not applicable – V1.0

Version: 1.0

Revision Date: not applicable – V1.0

Date of First Issue: 23/02/2021

References:

Safety Data Sheets for ingoing ingredients. National Industrial Chemical Notification and Assessment Scheme (NICNAS).

EU Data: Harmonised Classification and Existing ECHA registration(s) for 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (CAS No. 1675-54-3), 2,3-Epoxypropyl o-tolyl ether (CAS No. 2210-79-9) and Resorcinol (CAS No. 108-46-3). The classification and labelling inventory for 1-Chloro-4 Trifluoromethyl Bisphenol A Epoxy Resin (CAS No. 25085-99-8).

NICNAS IMAP Human health tier II assessments:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane: https://www.nicnas.gov.au/chemical-information/imap-assessments/imap-group-assessment-report?assessment_id=1790

2,3-Epoxypropyl o-tolyl ether: https://www.nicnas.gov.au/chemical-information/imap-assessments/imap-group-assessment-report?assessment_id=497

Resorcinol: https://www.nicnas.gov.au/chemical-information/imap-assessments/imap-assessment-details?assessment_id=1883

Literature References

1. Flickinger, C.W. 1976. The benzenediols: catechol, resorcinol and hydroquinone - a review of the industrial toxicology and current industrial exposure limits. American Industrial Hygiene Association Journal, 37:596-606.
2. United States Environmental Protection Agency- Office of Pollution Prevention and Toxics and Syracuse Research Corporation. 2000. EPI Suite v 3.12 (October 2006).
3. Schuurmann, G et al. 2006. as cited in United States Environmental Protection Agency EPI Suite v4.00, 2010.

The mixture is classified in accordance with Safe Work Australia model Work Health and Safety Regulations (2020) & GHS 7

SAFETY DATA SHEET

Version: 01

Date of Issue: 23/02/2021

Date of First Issue: 23/02/2021

www.vishaypg.com

ACCORDING TO: Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia, 2020) & GHS 7

LEGEND

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IATA	International Air Transport Association
IARC	International Agency for Research on Cancer
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
LTEL	Long term exposure limit
NICNAS	National Industrial Chemicals Notification and Assessment Scheme
NTP	National Toxicology Program
QSAR	Quantitative structure-activity relationship
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STEL	Short term exposure limit
TWA	Time Weighted Average

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.

Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Vishay Precision Group gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Vishay Precision Group accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.



Disclaimer

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Vishay Precision Group, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "VPG"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

The product specifications do not expand or otherwise modify VPG's terms and conditions of purchase, including but not limited to, the warranty expressed therein.

VPG makes no warranty, representation or guarantee other than as set forth in the terms and conditions of purchase. **To the maximum extent permitted by applicable law, VPG disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.**

Information provided in datasheets and/or specifications may vary from actual results in different applications and performance may vary over time. Statements regarding the suitability of products for certain types of applications are based on VPG's knowledge of typical requirements that are often placed on VPG products. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. You should ensure you have the current version of the relevant information by contacting VPG prior to performing installation or use of the product, such as on our website at vpgsensors.com.

No license, express, implied, or otherwise, to any intellectual property rights is granted by this document, or by any conduct of VPG.

The products shown herein are not designed for use in life-saving or life-sustaining applications unless otherwise expressly indicated. Customers using or selling VPG products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify VPG for any damages arising or resulting from such use or sale. Please contact authorized VPG personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Copyright Vishay Precision Group, Inc., 2014. All rights reserved.