

SAFETY DATA SHEET

WELLMID 2120

Material Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : WELLMID 2120
Product type : Paste
Product description : 1-Component adhesive
Product use : Assembly
Supplier : IX HOLDING LIMITED IXChemistry
 Unit 04,7/F Bright Way Tower, No.33 Mong Kok Road, Kowloon, HK
 Tel/Fax Number: 00852 3077 5916
E-mail address of person : ix.levy@ixchemical.net

2. Hazards identification

Physical/chemical dangerous : Not applicable.
Human health hazards : Irritating to eyes and skin. May cause sensitisation by skin contact.
Environmental hazards : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 See Section 11 for more detailed information on health effects and symptoms.

3. Composition/information on ingredients

Mixtures : Mixtures

Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Type
bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)	CAS: 25068-38-6 EC: 500-033-5 RRN: 01-2119456619-26	30-60	Xi; R36/38 R43 N; R51/53	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	[1]
2,2'-[methylenebis(phenyleneoxymethylene)] bisoxirane	CAS: 39817-09-9 EC: 254-641-8	13-30	Xi; R36/38 R43 N; R51/53	Aquatic Chronic 2, H411 Skin Corr. 1B, H314 Eye Dam. 1, H318	[1]
4,4'-Isopropylidenebis[2-allylphenol]	CAS: 1745-89-7 EC: 217-121-1	1-3	C; R34 R43		[1]

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance of equivalent concern

4. First aid measures

Description of first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small Do not induce quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. be kept low so that vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should or are severe. Never vomit does not enter the lungs. Get medical attention if adverse health effects persist give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

5.Firefighting measures

Extinguishing media

Suitable extinguishing : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing : None known.

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst.This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Decomposition products may include the following materials:carbon monoxide,halogenated compounds.

Advice for firefighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6.Accidental release measures

Personal precautions : No action shall be taken involving any personal risk or without suitable training.Evacuate surrounding areas.Keep unnecessary and unprotected personnel from entering.Do not touch or walk through spilt material.Avoid breathing vapour or mist.Provide adequate ventilation.Wear appropriate respirator when ventilation is inadequate.Put on appropriate personal protective equipment.If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil,waterways,drains and sewers.Inform the relevant authorities if the product has caused environmental pollution (sewers,waterways,soil or air). Water polluting material. May be harmful to the environment if released in large quantities.Collect spillage.

Methods for containment and cleaning up

Small spill : Stop leak if without risk.Move containers from spill area.Dilute with water and mop up if water-soluble. Alternatively,or if water-insoluble,absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor

Large spill : Stop leak if without risk.Move containers from spill area.Approach the release from upwind.Prevent entry into sewers,water courses,basements or confined areas.Wash spillages into an effluent treatment plant or proceed as follows.Contain and collect spillage with non-combustible, absorbent material e.g. sand,earth,vermiculite or diatomaceous earth and place in container for disposal according to local regulations.Dispose of via a licensed waste disposal contractor.Contaminated absorbent material may pose the same hazard as the spilt product.

7.Handling and storage

Protective measures : Put on appropriate personal protective equipment (see Section 8).Persons with a history of skin sensitization problems should not be employed in any process in which this product is used.Do not get in eyes or on skin or clothing.Do not ingest.Avoid breathing vapour or mist.Avoid release to the environment.Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous.Do not reuse container.

Storage,including any incompatibilities : Store between the following temperatures: 3 to 5°C.Store in accordance with local regulations.Store in original container protected from direct sunlight in a dry,cool and well-ventilated area,away from incompatible materials (see Section 10) and food and drink.Keep container tightly closed and sealed until ready for use.Containers that have been opened must be carefully resealed and kept upright to prevent leakage.Do not store in unlabelled containers.Use appropriate containment to avoid environmental contamination

Storage hazard class : Storage class 10, Environmentally hazardous liquids

Recommendations

solutions : Not available.

8.Exposure controls/personal protection

Occupational exposure limits : No exposure limit value known.

Recommended monitoring procedures : If this product contains ingredients with exposure limits,personal,workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.Reference should be made to monitoring standards,such as the following:European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products,before eating, smoking and using the lavatory and at the end of the working period.Appropriate techniques should be used to remove Wpotentially contaminated clothing.Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes,mists,gases or dusts.If contact is possible,the following protection should be worn,unless the assessment indicates a higher degree of protection:chemical splash goggles.

Hand protection : Chemical-resistant,impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

8.Exposure controls/personal protection

Material of gloves for long term application(BTT>480min)	: Ethyl Vinyl Alcohol Laminate (EVAL), butyl rubber
Material of gloves for shortterm/splash application(10min-BTT-480min)	: nitrile rubber
(BTT = Break Through Time)	
Body protection	: Personal protective equipment for the body should be selected based on the task being performed the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product
Respiratory protection	: In case of inadequate ventilation wear respiratory protection.Respirator selection must be based on known or anticipated exposure levels,the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.In some cases,fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9.Physical and chemical properties

Physical state	: Paste
Colour	: Grey
Odour	: Slight
Odour threshold	: Not available.
pH	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.
Flash point	: Closed cup: >150°C,DIN 51758 EN 22719 (Pensky-Martens Closed Cup)
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Burning time	: Not applicable.
Burning rate	: Not applicable.
Upper/lower flammability or explosive limits	: Not available.
Vapour pressure	: Not available.
Vapour density	: Not available.
Relative density	: Not available.
Water solubility	: practically insoluble(>20°C)
Partition coefficient	: Not available.(n-octanol/water (LogKow))
Auto-ignition temperature	: Not available.
Decomposition temperature	: >200°C
Viscosity	: Not available.
Explosive properties	: Not available.
Oxidising properties	: Not available.
Density	: 1.15 g/cm ³ [25°C]

10.Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: strong acids, strong bases, strong oxidising agents
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.Decomposition products may include the following materials:Carbon oxides, Burning produces obnoxious and toxic fumes.

11.Toxicological information

Acute toxicity	: No additional information.			
Product/ingredient name	Endpoint	Species	Result	Exposure
WELLMID 2120	LD50 Dermal	Rat	>2000 mg/kg	-
	LC50 Inhalation Vapour	Rat	>2000 mg/L	4Hours
Acute toxicity estimates	: Not available.			
Irritation/Corrosion	: Skin:Irritating to skin. Eyes:Irritating to eyes. Respiratory:No additional information.			
Sensitiser	: No additional information.			
Mutagenicity	: No additional information.			
Carcinogenicity	: No additional information.			
Reproductive toxicity	: No additional information.			
Teratogenicity	: No additional information.			
Specific target organ toxicity	: Not available.			
Aspiration hazard	: Not available.			
Information on the likely routes of exposure:	: Not available.			
Potential acute health effects	: Inhalation:Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.			

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11. Toxicological information

Potential acute health effects	: Ingestion: Irritating to mouth, throat and stomach. Skin contact: Causes skin irritation. May cause an allergic skin reaction. Eye contact: Causes serious eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	: Inhalation: No specific data. Ingestion: No specific data. Skin contact: Adverse symptoms may include the following: irritation, redness Eye contact: Adverse symptoms may include the following: pain or irritation, watering, redness.
Delayed and immediate effects from short and long term exposure	: Potential immediate effects: Not available. Potential delayed effects: Not available.
Potential chronic health effects	: No additional information. General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Carcinogenicity: No known significant effects or critical hazards. Mutagenicity: No known significant effects or critical hazards. Teratogenicity: No known significant effects or critical hazards. Developmental effects: No known significant effects or critical hazards. Fertility effects: No known significant effects or critical hazards. Other information: Not available.

12. Ecological information





Toxicity Product /ingredient name	Test	Endpoint	Exposure	Species	Result
WELLMID 2120	OECD 202 Daphnia sp, Acute Immobilisation Test	Acute EC50	48 hours Static	Daphnia	1.7 mg/l
	OECD 203 Fish, Acute Toxicity Test	Acute LC50	96 hours Static	Fish	1.5 mg/l
	OECD 211 Daphnia, Magna Reproduction Test	Chronic NOEC	21 days Semistatic	Daphnia	0.3 mg/l
Persistence and degradability	: Not readily biodegradable.				
Bioaccumulative potential	: Low				
Mobility in soil	: Not available.				
Results of PBT and vPvB assessment	: Not applicable.				
Other adverse effects	: No known significant effects or critical hazards.				

13. Disposal considerations

Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Hazardous waste	: Yes
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

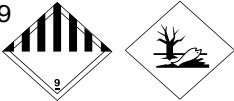
14. Transport information

	14.1 UN number	14.2 UN proper shipping name
ADR/RID	UN3082	Environmentally hazardous substance, liquid, n.o.s. BISPHENOL A EPOXY
IMDG	UN3082	Environmentally hazardous substance, liquid, n.o.s. (BISPHENOL A EPOXY RESIN). Marine pollutant (Bisphenol A epoxy resin, 2,2'-(methylenebis (phenyleneoxymethylene))bisoxirane)
IATA	UN3082	Environmentally hazardous substance, liquid, n.o.s. (BISPHENOL A EPOXY RESIN)

	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards	14.6 Special precautions for user	Additional information
ADR/RID	9  	III	Yes.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Hazard identification number 90 Special provisions 274, 335, 601 Tunnel E
IMDG	9  	III	Yes.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Emergency schedules (EmS) F-A, S-F

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	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards	14.6 Special precautions for user	Additional information
IATA	9 	III	Yes.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Passenger and Cargo Aircraft Quantity limitation: 450 L Packaging instructions: 964

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

15. Regulatory information

EU Regulation (EC) No. 1907/2006 (REACH) :	This product is compliant with the REACH Regulation EC 1907/2006.
Annex XIV :	None of the components are listed.
Substances of very high concern:	None of the components are listed.
Annex XVII :	Not applicable.
Europe inventory :	All components are listed or exempted.
Black List Chemicals :	Not listed.
Priority List Chemicals :	Not listed.
Integrated pollution :	Not listed.
Other EU regulations :	Not listed.
National regulations	
References :	The provision of Safety Data Sheets comes under Regulation 6 of CHIP (CHIP is the recognised abbreviation for the Chemicals Hazard Information and Packaging Regulations). This is an addition to the Health and Safety at Work Act 1974.
Australia inventory (AICS) :	
Canada inventory :	
China inventory (IECSC) :	All components are listed or exempted.
Japan inventory :	
Korea inventory (KECI) :	
New Zealand Inventory (NZIoC) :	
Philippines inventory (PICCS) :	
United States inventory (TSCA 8b):	All components are listed or exempted.
Chemical Weapons Convention List Schedule I Chemicals :	Not listed.
Chemical Weapons Convention List Schedule II Chemicals :	Not listed.
Chemical Weapons Convention List Schedule III Chemicals :	Not listed.
Chemical Safety Assessment :	This product contains substances for which Chemical Safety Assessments are still required.

16. Other information

Full text of abbreviated R phrases :	R34- Causes burns. R36/38- Irritating to eyes and skin. R43- May cause sensitisation by skin contact. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Full text of classifications DSD/DPD :	C - Corrosive Xi - Irritant N - Dangerous for the environment
Full text of classifications CLP/GHS :	Aquatic Chronic 2, H411-Long-term aquatic hazard - Category 2 Eye Dam. 1, H318 -Serious eye damage/ eye irritation - Category 1 Eye Irrit. 2, H319 -Serious eye damage/ eye irritation- Category 2 Skin Corr. 1B, H314 -Skin corrosion/irritation- Category 1B Skin Irrit. 2, H315 -Skin corrosion/irritation- Category 2 Skin Sens. 1, H317 -Skin sensitization- Category 1

Notice to reader

While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, nothing herein is to be construed as a warranty, express or otherwise. In all cases, it is the responsibility of the user to determine the applicability of such information and recommendations and the suitability of any product for its own particular purpose. The product may present hazards and should be used with caution. While certain hazards are described in this publication, no guarantee is made that these are the only hazards that exist. Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.