

SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : IMPREGNATING ADHESIVE

Product code : WF-ER330

1.2. Relevant identified uses of the substance or mixture and uses advised against

Bi-component system to obtain a final hardened, non-reactive material.

For industrial uses only.

1.3. Details of the supplier of the safety data sheet

Registered company name : Shanghai Wolfix Materials Co.,Ltd.

Address : Room 703, Building 3, No.101 Youyi Rd, Baoshan district, Shanghai.

Telephone : +86 150 0066 9292

Email : Admin@wolf-fix.com

www.wolf-fix.com

1.4. Emergency telephone number : +86 150 0066 9292.

Association/Organisation : Company Phone (24h)

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Eye irritation, Category 2 (Eye Irrit. 2, H319).

Skin sensitisation, Category 1A (Skin Sens. 1A, H317).

Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS07



GHS09

Signal Word :

WARNING Product

identifiers :

EC 500-033-5

EC 500-006-8

EC 219-371-7

REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN)

PHENOL, POLYMER WITH FORMALDEHYDE, GLYCIDYL ETHER (BISPHENOL F -

EPICHLORHYDRIN RESIN WITH NUMBER AVERAGE MOLECULAR WEIGHT < 700)

1,4-BIS(2,3 EPOXYPROPOXY)BUTANE

Hazard statements :

H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements - Prevention :

P264 Wash hands thoroughly after handling.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/ ...

Precautionary statements - Response :

P302+P352 F ON SKIN: Wash with plenty of water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary statements - Disposal :

P501 Dispose of contents/container at a disposal facility in accordance with local regulations.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition:

Identification	(EC) 1272/2008	Note	%
CAS: 14808-60-7 EC: 238-878-4 QUARTZ (SiO ₂) - NON RESPIRABLE		[1]	25 ≤ x % < 50
CAS: 25068-38-6 EC: 500-033-5 REACH: 01-2119456619-26 REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN)	GHS07, GHS09 Wng Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411		10 ≤ x % < 25
CAS: 28064-14-4 EC: 500-006-8 REACH: 01-2119454392-40 PHENOL, POLYMER WITH FORMALDEHYDE, GLYCIDYL ETHER (BISPHENOL F - EPICHLORHYDRIN RESIN WITH NUMBER AVERAGE MOLECULAR WEIGHT < 700)	GHS07, GHS09 Wng Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411		2.5 ≤ x % < 10
CAS: 2425-79-8 EC: 219-371-7 1,4-BIS(2,3 EPOXYPROPOXY)BUTANE	GHS07 Wng Acute Tox. 4, H312 Skin Irrit. 2, H315 Skin Sens. 1A, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332		2.5 ≤ x % < 10

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing by an unconscious person..

4.1. Description of first aid measures**In the event of splashes or contact with eyes :**

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.
If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognized cleaner.
Watch out for any remaining product between skin and clothing, watches, shoes, etc.
In the event of an allergic reaction, seek medical attention.
If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital

In the event of swallowing :

Do not give the patient anything orally.
In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.
Seek medical attention immediately, showing the label.

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5 : FIREFIGHTING MEASURES**5.1. Extinguishing media**

No data available

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke.
In the event of a fire, the following may be formed :
-carbon monoxide (CO)
-carbon dioxide (CO₂)

5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6 : ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid any contact with the skin and eyes.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.
Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

7.1. Precautions for safe handling

Always wash hands after handling.
Remove and wash contaminated clothing before re-using.

Fire prevention :

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid skin and eye contact with this mixture.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available. Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters****Occupational exposure limits :**

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
14808-60-7	0.05 mg/m ³	-	-	-	R

- Belgium (Arrêté du 09/03/2014, 2014) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
14808-60-7	0.1 mg/m ³				

- France (INRS - ED984 / 2019-1487) :

CAS	VME-ppm :	VME-mg/m ³ :	VLE-ppm :	VLE-mg/m ³ :	Notes :	TMP No :
14808-60-7	-	0.1 A	-	-	-	25

- Switzerland (SUVAPRO 2017) :

CAS	VME	VLE	Valeur plafond	Notations
14808-60-7	0.15 a mg/m ³			P C1 SSC

- UK / WEL (Workplace exposure limits, EH40/2005, 2011) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
14808-60-7	0.3 mg/m ³	-	-	-	R

SWISS :The professional use of this product by expectant or nursing mothers is restricted or prohibited altogether. The corresponding legal bases and precise regulations are set out in section 15.

The professional use of this product by young people is restricted or prohibited altogether. The corresponding legal bases and precise regulations are set out in section 15.

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) (CAS: 25068-38-6)

Final use:**Workers**

Exposure method:

Dermal contact.

Potential health effects:

Short term systemic effects

DNEL :

8.33 mg/kg body weight/day

Exposure method:

Dermal contact.

Potential health effects:

long term systemic effects

DNEL :

8.33 mg/kg body weight/day

Exposure method:

Inhalation.

Potential health effects:

Short term systemic effects

DNEL :

12.25 mg of substance/m³

Exposure method:

Inhalation.

Potential health effects:

long term systemic effects

DNEL :

12.25 mg of substance/m³

Final use:**Consumers.**

Exposure method:

Ingestion

Potential health effects:

Short term systemic effects

DNEL

0.75 mg/kg body weight/day

Exposure method:	Ingestion
Potential health effects:	long term systemic effects
DNEL	0.75 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Short term systemic effects
DNEL	3.751 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects
DNEL	3.751 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Short term systemic effects.
DNEL	0.75 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL	0.75 mg of substance/m3

Predicted no effect concentration (PNEC):

REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) (CAS: 25068-38-6)

Environmental compartment:	Soil.
PNEC :	0.196 mg/l
Environmental compartment:	Fresh water.
PNEC :	0.006 mg/l
Environmental compartment:	Sea water.
PNEC :	0.006 mg/l
Environmental compartment:	Intermittent waste water.
PNEC :	0.018 mg/l
Environmental compartment:	Fresh water sediment.
PNEC :	0.996 mg/l
Environmental compartment:	Marine sediment.
PNEC :	0.0996 mg/l
Environmental compartment:	Waste water treatment plant.
PNEC :	10 mg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE):



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Recommended properties :

- Impervious gloves in accordance with standard EN374

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state :	Paste.
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Important health, safety and environmental information

pH:	Not relevant.
Flash point interval :	Not relevant.
Vapour pressure (50°C) :	Not relevant.
Density :	1.2
Water solubility :	Insoluble.

9.2. Other information

No data available

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Keep away from

- strong oxidising agents
- sodium hydroxide

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days. May cause an allergic reaction by skin contact.

11.1.1. Substances

Acute toxicity :

1,4-BIS(2,3 EPOXYPROPOXY)BUTANE (CAS: 2425-79-8)

Dermal route : 1,000 < LD₅₀ ≤ 2000 mg/kg

Inhalation route (Vapours) 10 < LC₅₀ ≤ 20 mg/l

Duration of exposure : 4 h

REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) (CAS: 25068-38-6):

oral route : LD₅₀ = 15000 mg/kg

Species : Rat

Dermal route : LD₅₀ = 23000 mg/kg

Species : Rabbit

11.1.2. Mixture

No toxicological data available for the mixture

Monograph(s) from the IARC (International Agency for Research on Cancer) :

CAS 14808-60-7 : IARC Group 1 : The agent is carcinogenic to humans.

SECTION 12 : ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1. Toxicity

12.1.1. Substances

REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) (CAS: 25068-38-6)

Fish toxicity : LC₅₀ = 2 mg/l
Species : *Oncorhynchus mykiss*
Duration of exposure : 96 h

Crustacean toxicity : EC₅₀ = 1.8 mg/l
Species : *Daphnia magna*
Duration of exposure : 48 h

NOEC = 0.3 mg/l
Species : *Daphnia magna*
Duration of exposure : 21 days

Algae toxicity : EC₅₀ = 11 mg/l
Species : *Scenedesmus capricornutum*
Duration of exposure : 72 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability**12.2.1. Substances**

REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) (CAS: 25068-38-6)

Biodegradability : Non-rapidly degradable.

12.3. Bioaccumulative potential**12.3.1. Substances**

REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) (CAS: 25068-38-6)

Octanol/water partition coefficient : log K_{ow} = 3.242

Bioaccumulation : BCF = 100

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Codes of wastes (Decision 2014/955/EC, Directive 2008/98/EEC on hazardous waste) :

08 04 09 * waste adhesives and sealants containing organic solvents or other dangerous substances

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2019 -IMDG 2018 - ICAO/IATA 2020).

14.1. UN number

3082

14.2. UN proper shipping name

UN3082=ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(reaction product: bisphenol-a-(epichlorhydrin), phenol, polymer with formaldehyde, glycidyl ether (bisphenol f - epichlorhydrin resin with number average molecular weight < 700))

14.2. UN proper shipping name

- Classification :

**14.4. Packing group**

III

14.4. Packing group

- Environmentally hazardous material :

**14.6. Special precautions for user**

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	9	M6	III	9	90	5 L	274 335 375 601	E1	3	-

*Not subject to this regulation if Q ≤ 5 l / 5 kg (ADR 3.3.1 - DS 375)

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation
	9	-	III	5 L	F-A, S-F	274 335 969	E1	Category A	-

*Not subject to this regulation if Q ≤ 5 l / 5 kg (IMDG 3.3.1 - 2.10.2.7)

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	9	-	III	964	450 L	964	450 L	A97 A158 A197	E1
	9	-	III	Y964	30 kg G	-	-	A97 A158 A197	E1

*Not subject to this regulation if Q ≤ 5 l / 5 kg (IATA 4.4.4 - DS A197)

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15 : REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

SWISS:

- Article 13 Maternity ordinance (SR 822.111.52) :

Expectant and nursing mothers are only permitted to come into contact with this product during the course of their work if, based on a risk assessment carried out in accordance with Article 63 of Ordinance 1 on the Employment Act (ArGV 1) (SR 822.111), the chemicals in question have been found not to cause any specific harm to mothers or children or if such harm can be ruled out by taking appropriate protective measures.

- Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2):

Young people undergoing basic vocational training may only work with this product if the relevant training ordinance makes provision for them to do so with a view to enabling them to achieve their training objectives and if the preconditions for the training plan have been met and the applicable age restrictions have been complied with. Young people who are not completing any basic vocational training are not permitted to work with this product.

Employees of either sex who are under 18 years old are classed as young people.

- Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2016/1179. (ATP 9)

- Container information:

No data available.

- Particular provisions :

No data available.

- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :

NFPA 704, Labelling: Health=2 Inflammability=1 Instability/Reactivity=1 Specific Risk=none



- Swiss ordinance on the incentive tax on volatile organic compounds :

108-65-6

acétate de 1-méthoxy-2-propyle

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3 :

H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.

Abbreviations :

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS07 : Exclamation mark

GHS09 : Environment

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.