

## Safety Data Sheet

In accordance with GB/T 16483-2008, GB/T 17519-2013

### ADESILEX G19 SF / A

Safety Data Sheet dated: 28/10/2021 - version 2

Date of first edition: 18/08/2020



## 1. Chemical Product and company Identification

### Product identifier

Mixture identification:

Trade name: ADESILEX G19 SF / A

Trade code: 903GM9990

Registration Number N/A

### Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Epoxy-polyurethane adhesive

Uses advised against: N.A.

### Details of the supplier of the safety data sheet

Company: MAPEI CHINA – Mapei Construction Materials (Guangzhou) Co., Ltd  
No. 6, Fengying Road, Guangdong Conghua Economy Development Zone,  
Conghua District, Guangzhou, Guangdong Province, China

Phone: 86-20-8781 0701

enquiry@mapei.com.cn

### Emergency telephone number

Phone: 86-20-8781 0701

## 2. Hazards identification



### Emergency overview:

N.A.

### Classification of the substance or mixture

Skin Irrit. 3	Causes mild skin irritation
Skin Sens. 1	May cause an allergic skin reaction.
Aquatic Chronic 3	Harmful to aquatic life with long lasting effects.

### Label elements

#### Pictograms and Signal Words



Warning

### Hazard statements:

H316	Causes mild skin irritation
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

### Precautionary statements:

P261	Avoid breathing mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P321	Specific treatment (see supplementary instructions on this label)
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container in accordance with applicable regulations.

### Hazards identification:

Physical hazards: N.A.

Health hazards: N.A.

Environmental hazards: N.A.

## Other hazards

No PBT/vPvB Ingredients are present

Other Hazards: No other hazards

This preparation contains low molecular weight epoxy resins. Cross sensitisation to other epoxies is possible. Avoid also exposure to spray mist and vapour.

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## 3. Composition/information on ingredients

### Substances

N.A.

### Mixtures

Mixture identification: ADESILEX G19 SF / A

### List of components

Concentration (%) w/w)	Name	Ident. Numb.	Classification	Registration Number
≥5 - <10 %	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	CAS:25068-38-6 EC:500-033-5 Index:603-074-00-8	Eye Irrit. 2A, H319; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 2, H411	01-2119456619-26
≥1 - <2.5 %	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	CAS:68609-97-2 EC:271-846-8 Index:603-103-00-4	Skin Irrit. 2, H315; Skin Sens. 1, H317	01-2119485289-22-XXXX
≥0.49 - <1 %	4-nonylphenol, branched	CAS:84852-15-3 EC:284-325-5 Index:601-053-00-8	Repr. 2, H361fd; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	01-2119510715-45-XXXX

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## 4. First aid measures

### Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediately and dispose of safely.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

### Most important symptoms and effects, both acute and delayed

N.A.

### Advices for first aid responders

N.A.

### Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

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## 5. Firefighting measures

### Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

### Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

### Advice for firefighters and protective measures

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

### Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

### Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

### Precautionary measures to prevent the occurrence of secondary hazard

N.A.

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## 7. Handling and storage

### Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

### Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

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## 8. Exposure controls/personal protection

### Control parameters

No data available

### Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; EN ISO 374:

Polychloroprene - CR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Nitrile rubber - NBR: thickness  $\geq 0,35\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Butyl rubber - IIR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Fluorinated rubber - FKM: thickness  $\geq 0,4\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Respiratory protection:

Personal Protective Equipment should comply with relevant CE standards (as EN ISO 374 for gloves and EN ISO 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

In case of insufficient ventilation use mask with ABEKP filters (EN 14387).

Hygienic and Technical measures

N.A.

### Appropriate engineering controls:

N.A.

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## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: paste Beige

Odour: Characteristic

Odour threshold: N.A.

pH: N.A.  
Melting point / freezing point: N.A.  
Initial boiling point and boiling range: N.A.  
Flash point: N.A.  
Evaporation rate: N.A.  
Upper/lower flammability or explosive limits: N.A.  
Vapour density: N.A.  
Vapour pressure: N.A.  
Relative density: 1,50 g/cm<sup>3</sup>  
Solubility in water: Insoluble  
Solubility in oil: N.A.  
Partition coefficient (n-octanol/water): N.A.  
Auto-ignition temperature: N.A.  
Decomposition temperature: N.A.  
Viscosity: 150.000,00 mPA-s  
Explosive properties: N.A.  
Oxidizing properties: N.A.  
Solid/gas flammability: N.A.  
Volatile Organic compounds - VOCs = N.A.

#### Other information

Substance Groups relevant properties N.A.  
Miscibility: N.A.  
Conductivity: N.A.

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## 10. Stability and reactivity

### Chemical stability

Data not available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

None in particular.

### Hazardous decomposition products

None.

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## 11. Toxicological information

### Information on toxicological effects

#### Toxicological information of the mixture:

a) acute toxicity	Not classified Based on available data, the classification criteria are not met
b) skin corrosion/irritation	The product is classified: Skin Irrit. 3(H316)
c) serious eye damage/irritation	Not classified Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	The product is classified: Skin Sens. 1(H317)
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified Based on available data, the classification criteria are not met

#### Toxicological information on main components of the mixture:

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	a) acute toxicity	LD50 Oral Rat > 15000 mg/kg
		LD50 Skin Rabbit > 23000 mg/kg
		LD50 Oral Rat = 11400 mg/kg
	i) STOT-repeated exposure	NOAEL Oral Rat = 50 mg/kg NOAEL Skin Rat = 100 mg/kg
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	a) acute toxicity	LD50 Oral Rat = 19200 mg/kg LD50 Skin Rabbit = 4000.00000 mg/kg
4-nonylphenol, branched	a) acute toxicity	LD50 Oral Rat = 1246.00000 mg/kg LD50 Skin Rabbit = 2031.00000 mg/kg
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative
	d) respiratory or skin sensitisation	Skin Sensitization Rat Negative

## 12. Ecological information

### Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

Harmful to aquatic life with long lasting effects.

### List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 3(H412)

### List of components with eco-toxicological properties

Component	Ident. Numb.	Ecotox Infos
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	CAS: 25068-38-6 - EINECS: 500-033-5 - INDEX: 603-074-00-8	a) Aquatic acute toxicity : LC50 Fish > 2 mg/L 96
		a) Aquatic acute toxicity : EC50 Daphnia > 1.8 mg/L 48
		a) Aquatic acute toxicity : LC50 Algae > 11 mg/L 72
		a) Aquatic acute toxicity : LC50 Daphnia = 1.3 mg/L 96 b) Aquatic chronic toxicity : NOEC Daphnia = 0.3 mg/L
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	CAS: 68609-97-2 - EINECS: 271-846-8 - INDEX: 603-103-00-4	a) Aquatic acute toxicity : LC50 Fish > 100.00000 mg/L 96h
		a) Aquatic acute toxicity : EL50 Daphnia = 7.20000 mg/L 48h
		a) Aquatic acute toxicity : EC50 Algae = 843.00000 mg/L 72h b) Aquatic chronic toxicity : NOEC Algae = 500 mg/L 72h
		a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 0.135 mg/L 96h IUCLID
4-nonylphenol, branched	CAS: 84852-15-3 - EINECS: 284-325-5 - INDEX: 601-053-00-8	a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 0.1351 mg/L 96h EPA
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 0.14 mg/L 48h IUCLID

a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata 0.36 mg/L 96h EPA

a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata 0.16 mg/L 72h EPA

a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 1.3 mg/L 72h IUCLID

#### Persistence and degradability

Component	Persistence/Degradability:
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Readily biodegradable

#### Bioaccumulative potential

Component	Bioaccumulation	Test	Duration	Value
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Not bioaccumulative			
4-nonylphenol, branched	Not bioaccumulative	BCF - Bioconcentration factor	28 d	740

#### Mobility in soil

N.A.

#### Other adverse effects

N.A.

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### 13. Disposal considerations

#### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

#### Methods of disposal:

Disposal of this product, solutions, packaging 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.

Do not dispose of waste into sewers.

#### Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

#### Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

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### 14. Transport information

Not classified as dangerous in the meaning of transport regulations.

#### UN number

N.A.

#### UN proper shipping name

N.A.

#### Transport hazard class(es)

N.A.

#### Packing group

N.A.

#### Environmental hazards

N.A.

#### Special precautions for user

N.A.

#### Road and Rail (ADR-RID) :

N.A.

#### Air (IATA) :

N.A.

Sea ( IMDG ) :

N.A.

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## 15. Regulatory information

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

Chemical classification, hazard labelling and precautionary statements according to GB30000.2-2013 ~ GB30000.29-2013.

#### Catalogue of Hazardous Chemicals:

##### Substance(s) listed under Catalogue of Hazardous Chemicals:

reaction product: bisphenol-A-(epichlorhydrin); 25068-38-6  
epoxy resin (number average molecular weight <= 700)

oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2

4-nonylphenol, branched 84852-15-3

#### Catalogue of Highly Toxic Chemicals:

##### Substance(s) listed under Catalogue of Highly Toxic Chemicals:

No substance(s) listed.

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## 16. Other information

Safety Data Sheet dated: 28/10/2021 - version 2

This document was prepared by a competent person who has received appropriate training.

This SDS complies with "Safety data sheet for chemical product – Content and order of sections" (GB/T 16483-2008) and "Guidance on the compilation of safety data sheet for chemical products" (GB/T 17519-2013). The classification of the product in this SDS complies with "Rules for classification and labelling of chemicals" (GB30000.2-2013 ~ GB30000.29-2013).

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
IMDG: International Maritime Code for Dangerous Goods.  
INCI: International Nomenclature of Cosmetic Ingredients.  
IRCCS: Scientific Institute for Research, Hospitalization and Health Care  
KAFH: KAFH  
KSt: Explosion coefficient.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
LDLo: Leathal Dose Low  
N.A.: Not Applicable  
N/A: Not Applicable  
N/D: Not defined/ Not available  
NA: Not available  
NIOSH: National Institute for Occupational Safety and Health  
NOAEL: No Observed Adverse Effect Level  
OSHA: Occupational Safety and Health Administration.  
PBT: Persistent, Bioaccumulative and Toxic  
PGK: Packaging Instruction  
PNEC: Predicted No Effect Concentration.  
PSG: Passengers  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
vPvB: Very Persistent, Very Bioaccumulative.  
WGK: German Water Hazard Class.

**Disclaimer:**

The information in this SDS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This SDS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this SDS should make independent judgment for the applicability of this SDS under special conditions. In these special cases, we do not assume responsibility for the damage.

**Paragraphs modified from the previous revision:**

- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 4. FIRST AID MEASURES
- 6. ACCIDENTAL RELEASE MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION