

SAFETY DATA SHEET

Gerfix 196 Hybrid Multi-Use Adhesive Part B

Version 0.0

Revision Date 06/24/2024

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Gerfix 196 Hybrid Multi-Use Adhesive Part B
Product code : 100000031402

Manufacturer or supplier's details

Company : H.B. Fuller Company
Address : 1200 Willow Lake Boulevard
Vadnais Heights, MN 55110
Telephone : 1-888-423-8553

Medical Emergency Phone Number (24 Hours): 1-888-853-1758

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

Recommended use of the chemical and restrictions on use

Recommended use : Hardening agent/ Curing agent
Restrictions on use : For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION


Emergency Overview

Appearance	liquid
Color	off-white
Odor	amine-like

GHS Classification

Skin irritation : Category 2
Serious eye damage : Category 1
Skin sensitization : Category 1

GHS label elements

Hazard pictograms : 

Signal Word : Danger

Hazard Statements:

H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

Precautionary Statements:

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Prevention: P261 Avoid breathing mist or vapors. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/ eye protection/ face protection.

Response: P302 + P352 IF ON SKIN: Wash with plenty of soap and water. 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. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse.

Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects
Carcinogenicity:

IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical name	CAS-No.	Concentration [%]
Bisphenol-A, bisphenol-F, epichlorohydrin, polyethyleneglycol, triethylenetetraamine, cresylglycidylether, C12-C14 alkylglycidylether	1312024-58-0	10 - 20
tertiary amine	90-72-2	1 - 5

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	: Show this material safety data sheet to the doctor in attendance. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
If inhaled	: Remove person to fresh air. If signs/symptoms continue, get medical attention. In case of unconsciousness bring patient into stable side position for transport.
In case of skin contact	: Call a physician if irritation develops or persists.

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| In case of eye contact | : Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists. |
| If swallowed | : Do NOT induce vomiting.
If accidentally swallowed obtain immediate medical attention.
Rinse mouth with water.
If conscious, drink fresh water.
If symptoms persist, call a physician. |
| Most important symptoms and effects, both acute and delayed | : Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage. |
| Notes to physician | : No further relevant information available. |
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SECTION 5. FIRE-FIGHTING MEASURES

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| Suitable extinguishing media | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water mist
Dry powder
Carbon dioxide (CO ₂)
Alcohol-resistant foam |
| Specific hazards during fire fighting | : May release toxic, irritating and/or corrosive gases.
In case of fire, the following substance(s) may occur:
Nitrogen oxides
Carbon monoxide |
| Specific extinguishing methods | : |
| Further information | : In the event of fire, wear self-contained breathing apparatus.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for fire-fighters | : In the event of fire, wear self-contained breathing apparatus. |
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SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | |
|---|--|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.
Ensure adequate ventilation.

: Refer to protective measures listed in sections 7 and 8. |
| Environmental precautions | : The product should not be allowed to enter drains, water courses or the soil. |
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If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Ensure adequate ventilation.
Send for recovery or disposal in suitable containers.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Dispose of contaminated material as waste according to section 13.

SECTION 7. HANDLING AND STORAGE

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Avoid formation of dust and aerosols.
Handle with care.
Keep eye wash bottle available on working place.
Avoid release to the environment.
Keep out of reach of children.
Use only in an area equipped with a safety shower.

Conditions for safe storage : Keep dark, cool and dry.
Do not freeze.
Keep container closed when not in use.

Materials to avoid : No special restrictions on storage with other products.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

Engineering measures : Please take note of national and local requirements.

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate risk management measures (exhaust/ ventilation) are provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
In case of brief exposure or low pollution (exceeding of TLV) use breathing filter apparatus. In case of intensive or longer exposure

Filter type : Combined particulates and organic vapor type or equipment

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with better protection

Hand protection

Material

Remarks

: Nitrile rubber or equipment with better protection
 : Direct contact with the product must be avoided by organizational measures. The glove material has to be impermeable and resistant to the product/the substance/the preparation. The exact break through time can be obtained from the protective glove producer and this has to be observed. The gloves need to be disposed after the penetration time and replaced by new ones. Apply skin protectant before working with gloves to avoid skin swellings and use a skin cleansing and skincare product after the work.
For the permanent contact gloves made of the following materials are suitable:
 If longer exposure to the chemical preparation is necessary, a sturdy overglove against mechanical strain is recommended in combination with the Barrier 02-100 underglove from Ansell or other suppliers (penetration time: 480 min).

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber (minimum thickness: 0.7 mm; penetration time: 15 min)

As protection from splashes gloves made of the following materials are suitable:

Nitril (minimum thickness 0.12 mm), Disposable gloves with long cuffs

After contact with the chemical preparation, take the disposable nitrile glove off immediately and put on a new disposable nitrile glove.

Eye protection

: Tightly fitting safety goggles or equipment with better protection

Skin and body protection

: Protective clothing

Protective measures

: Keep away from food, drink and animal feeding stuffs. Instantly remove any soiled and impregnated garments. Wash hands before breaks and immediately after handling the product. Avoid contact with the eyes and skin. Store protective clothing separately.

Wear suitable protective clothing.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: off-white
Odor	: amine-like
Odor Threshold	: is not determined
Melting point/freezing point	: is not determined
Boiling point/boiling range	: is not determined
Flash point	: Not applicable
Evaporation rate	: is not determined
Flammability (solid, gas)	: Not classified as a flammability hazard
Upper explosion limit	: Upper flammability limit is not determined
Lower explosion limit	: Lower flammability limit is not determined
Vapor pressure	: is not determined
Relative vapor density	: is not determined
Density	: 8.43 lb/gal
Solubility(ies)	
Water solubility	: not miscible or difficult to mix
Partition coefficient: n-octanol/water	: no data available
Autoignition temperature	: not self-igniting
Thermal decomposition	: Not applicable
Explosive properties	: Not explosive

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No further relevant information available.
Chemical stability	: No decomposition if used according to the specifications.
Possibility of hazardous reactions	: Strong exothermic reaction with acids.
Conditions to avoid	: No further relevant information available.
Incompatible materials	: No further relevant information available.
Hazardous decomposition products	: No decomposition if stored and applied as directed.

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SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity****Product:**Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation method**Components:****tertiary amine:**

Acute oral toxicity : LD50 Oral Rat: 1,000 mg/kg

Acute dermal toxicity : LD50 Dermal Rat: 1,280 mg/kg

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration toxicity

No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

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No data available

Persistence and degradability

No data available

Bioaccumulative potential**Mobility in soil****Product:**

Mobility

: Medium: Soil

Remarks: Do not allow product to reach ground water, water bodies or sewage system.

Other adverse effectsNo data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues

: To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Disposal via incineration at an approved facility is recommended, as industry best practice. Consult state, local or provincial authorities for more restrictive requirements.

Contaminated packaging

: Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION**International Regulations****UNRTDG**

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation**49 CFR**Not regulated as a dangerous good

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SECTION 15. REGULATORY INFORMATION

- SARA 311/312 Hazards** : Respiratory or skin sensitization
Skin corrosion or irritation
Serious eye damage or eye irritation
- SARA 302** : This material does not contain any components with a section 302 EHS TPQ.
- SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

US State Regulations

California Prop 65 Please contact Supplier for more information.

The ingredients of this product are reported in the following inventories:

TCSI	Not in compliance with the inventory
TSCA	All substances listed as active on the TSCA inventory
AIIC	Not in compliance with the inventory
DSL	This product contains the following components that are not on the Canadian DSL nor NDSL.
ENCS	Not in compliance with the inventory
ISHL	Not in compliance with the inventory
KECI	Not in compliance with the inventory
PICCS	Not in compliance with the inventory
IECSC	Not in compliance with the inventory
NZIoC	Not in compliance with the inventory
CHINV	The mixture contains substances listed on the Swiss Inventory
REACH	Not in compliance with the inventory Not in compliance with the inventory Not in compliance with the inventory
TECI	Not in compliance with the inventory

Inventories Legend TSCA (USA), DSL (Canada), REACH(Europe), AIIC (Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)

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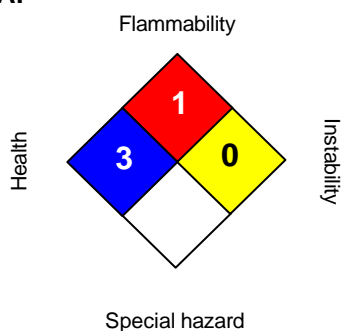
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SECTION 16. OTHER INFORMATION

Prepared by: Global Regulatory Department
EU-MSDS@hbfuller.com

Further information

NFPA:



HMIS III:

HEALTH	3/
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification. The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to the H.B. Fuller Company from its suppliers, and because the H.B. Fuller Company has no control over the conditions of handling and use, the H.B. Fuller Company makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and the H.B. Fuller Company assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Company products to comply with all applicable federal, state and local laws and regulations.