

SAFETY DATA SHEET**H.B. Fuller® EV Therm 420 A**

Version 1.5

Revision Date 07/28/2022

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : H.B. Fuller® EV Therm 420 A
Product code : 100000015943

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 : Adhesive
Restrictions on use : For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Appearance	liquid
Color	off-white
Odor	slight

GHS Classification

Skin irritation : Category 2
Serious eye damage : Category 1
Skin sensitization : Category 1
Reproductive toxicity : Category 1B

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. H360 May damage fertility or the unborn child.

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Precautionary Statements:

Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. 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/ protective clothing/ 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. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse.

Storage: P405 Store locked up.

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 [%]
aluminium hydroxide	21645-51-2	50 - 70
tetrahydrofurfuryl methacrylate	2455-24-5	10 - 20
methacrylic acid	79-41-4	1 - 5
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate	52628-03-2	0.1 - 1
methyl methacrylate	80-62-6	0.1 - 1
2,2'-[(4-methylphenyl)imino]bisethanol	3077-12-1	0.1 - 1

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.

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| 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 | : | If skin irritation persists, call a physician. |
| In case of eye contact | : | Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists. |
| If swallowed | : | If accidentally swallowed obtain immediate medical attention.
Rinse mouth with water.
If conscious, drink plenty of water.
Do NOT induce vomiting.
If symptoms persist, call a physician. |
| 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
Foam
Dry powder
Carbon dioxide (CO ₂) |
| Specific hazards during fire fighting | : | No further relevant information available. |
| 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 | : | No special protective measures against fire required. |
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SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | | |
|---|---|--|
| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment.
Ensure adequate ventilation. |
| Environmental precautions | : | The product should not be allowed to enter drains, water courses or the soil.
If the product contaminates rivers and lakes or drains inform respective authorities. |
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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

Advice on safe handling : Avoid formation of dust and aerosols.
 Use only with adequate ventilation.
 Handle with care.
 Keep eye wash bottle available on working place.
 Avoid release to the environment.
 Keep away from children.

Conditions for safe storage : Keep dark, cool and dry.
 Do not freeze.

Materials to avoid :

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
methacrylic acid	79-41-4	TWA	20 ppm	ACGIH
		TWA	20 ppm 70 mg/m ³	OSHA P0
		PEL	20 ppm 70 mg/m ³	CAL PEL
methyl methacrylate	80-62-6	TWA	50 ppm	ACGIH
		STEL	100 ppm	ACGIH
		TWA	100 ppm 410 mg/m ³	OSHA Z-1
		TWA	100 ppm 410 mg/m ³	OSHA P0
		PEL	50 ppm 205 mg/m ³	CAL PEL
aluminium hydroxide	21645-51-2	STEL	100 ppm 410 mg/m ³	CAL PEL
		TWA (Respirable particulate matter)	1 mg/m ³	ACGIH
		TWA	1 mg/m ³	ACGIH

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		(Respirable particulate matter)		
methacrylic acid	79-41-4	TWA	20 ppm	ACGIH
		TWA	20 ppm 70 mg/m3	OSHA P0
		PEL	20 ppm 70 mg/m3	CAL PEL
methyl methacrylate	80-62-6	TWA	50 ppm	ACGIH
		STEL	100 ppm	ACGIH
		TWA	100 ppm 410 mg/m3	OSHA Z-1
		TWA	100 ppm 410 mg/m3	OSHA P0
		PEL	50 ppm 205 mg/m3	CAL PEL
		STEL	100 ppm 410 mg/m3	CAL PEL

Engineering measures : Please take care on national and local requirements.

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is 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

Hand protection

Material : Nitrile rubber
Remarks : 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.

Eye protection : Tightly fitting safety goggles

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.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: off-white
Odor	: slight
Odor Threshold	: is not determined
Melting point/freezing point	: is not determined
Boiling point/boiling range	: is not determined
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	: 1.72 g/cm ³
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	: None known.
Conditions to avoid	: No further relevant information available.
Incompatible materials	: No further relevant information available.
Hazardous decomposition products	: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

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Acute toxicity**Product:**

Acute oral toxicity :
Remarks: Based on available data, the classification criteria are not met.

Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation method

Acute inhalation toxicity :
Remarks: Based on available data, the classification criteria are not met.

Acute toxicity estimate : 148.93 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity :
Remarks: Based on available data, the classification criteria are not met.

Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation method

Components:**methacrylic acid:**

Acute inhalation toxicity : LC50 Rat: 7.1 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

methyl methacrylate:

Acute inhalation toxicity : LC50 Rat: 4632 ppm
Exposure time: 4 h
Test atmosphere: vapor

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

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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****Components:****methyl methacrylate :**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 79 mg/l
Exposure time: 96 h
Test Method: flow-through test

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 69 mg/l
aquatic invertebrates : Exposure time: 48 h
Test Method: static test

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 effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

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Disposal methods

- Waste from residues : Do not dispose of with domestic refuse.
Do not dispose of waste into sewer.
Hand over to disposers of hazardous waste.
Can be deposited with household garbage after solidification following consultation with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.
The generation of waste should be avoided or minimized wherever possible.
Incinerate under controlled conditions in accordance with all local and national laws and regulations.
Disposal must be made according to official regulations.
- 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

SECTION 15. REGULATORY INFORMATION

- SARA 311/312 Hazards** : Respiratory or skin sensitization
Reproductive toxicity
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.

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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

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

methyl methacrylate

80-62-6

US State Regulations

California Prop 65 : Please contact Supplier for more information.

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

TSCA All substances listed as active on the TSCA inventory

DSL All components of this product are on the Canadian DSL

KECI On the inventory, or in compliance with the inventory
Inventories Legend TSCA (USA), DSL (Canada), REACH(Europe), AIC (Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)

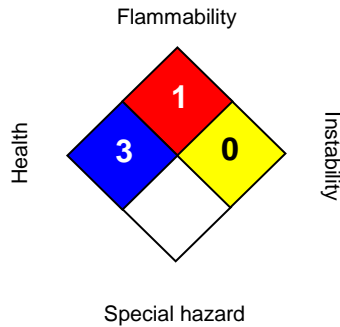
SECTION 16. OTHER INFORMATION

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

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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.