

Safety Data Sheet

Fas-Lok 42 Thread Locker

SDS Revision Date:

04/02/2015



1. Identification

1.1. Product identifier

Product Identity

Fas-Lok 42 Thread Locker

Alternate Names

BCT5023-001

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

Intended use

See Technical Data Sheet.

Application Method

See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name

BenchCraft Hobby Products
320 Cary Point Drive
Cary, IL 60013

Emergency

(800) 424-9300

CHEMTREC (USA)

Chemtrec:

24 hour Emergency Telephone No.

Within USA & Canada: 1-800-424-9300
Outside USA & Canada: 1-703-527-3887

Customer Service: Heartland Adhesives, Inc.

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Acute Tox. 4;H332

Harmful if inhaled.

Skin Irrit. 2;H315

Causes skin irritation.

Eye Irrit. 2;H319

Causes serious eye irritation.

Skin Sens. 1;H317

May cause an allergic skin reaction.

STOT RE 2;H373

May cause damage to organs through prolonged or repeated exposure. Specific Target Organs: (Not Available)

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

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Warning

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

[Prevention]:

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves / eye protection / face protection.

[Response]:

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P313 Get medical advice / attention.

P314 Get Medical advice / attention if you feel unwell.

P321 Specific treatment (see information on this label).

P333+313 If skin irritation or a rash occurs: Get medical advice / attention.

P337+313 If eye irritation persists: Get medical advice / attention.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P362 Take off contaminated clothing and wash before reuse.

P363 Wash contaminated clothing before reuse.

[Storage]:

No GHS storage statements

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

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3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
PROPENOIC ACID, 2-METHYL-, (1-METHYLETHYLIDENE)BIS CAS Number: 0024448-20-2	25 - 50	Not Classified	[1]
PROPENOIC ACID, 2-METHYL-, 2-HYDROXYPROPYL ESTER CAS Number: 0000923-26-2	25 - 50	Eye Irrit. 2;H319 Skin Sens. 1;H317	[1]
BUTENEDIOIC ACID (2E)-, POLYMER WITH .ALPHA.,.ALPH CAS Number: 0039382-25-7	10 - 25	Not Classified	[1]
Hydroxypropyl methacrylate CAS Number: 0027813-02-1	1.0 - 10	Eye Irrit. 2;H319 Skin Sens. 1;H317	[1]
Cumene hydroperoxide CAS Number: 0000080-15-9	1.0 - 10	Org. Perox. E;H242 Acute Tox. 3;H331 Acute Tox. 4;H312 Acute Tox. 4;H302 STOT RE 2;H373 Skin Corr. 1B;H314 Aquatic Chronic 2;H411	[1]
Maleic acid CAS Number: 0000110-16-7	0.10 - 1.0	Acute tox. 4;H302 Eye Irrit. 2;H319 STOT SE 3;H335 Skin Irrit. 2;H315 Skin Sens. 1;H317	[1]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

Inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes

Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

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Ingestion If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

Overview CAUSES EYE IRRITATION.
MAY CAUSE SKIN IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.
MAY CAUSE RESPIRATORY TRACT IRRITATION.
See section 2 for further details.

Inhalation Harmful if inhaled.

Eyes Causes serious eye irritation.

Skin May cause an allergic skin reaction. Causes skin irritation.

5. Fire-fighting measures

5.1. Extinguishing media

Alcohol resistant foam, dry powder, carbon dioxide. Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Combustion/exothermic polymerization will generate oxides of carbon, acrid smoke and irritating fumes.

Avoid breathing dust / fume / gas / mist / vapors / spray.

5.3. Advice for fire-fighters

Do not breathe decomposition products and fumes. Use approved self-contained breathing apparatus. Wear fire retardant clothing. Wear eye protection. Large fires should only be dealt with by trained personnel. Use water spray to cool containers. Prevent runoff from fire control from entering waterways.

ERG Guide No. ----

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Ventilate area. Evacuate all personnel. Use barriers to prevent unauthorized entry into contaminate areas. Do not allow spill to enter drains and watercourses. Absorb in inert material such as sand or absorbent granules. Scoop up and place in plastic container to await transfer. Dispose in accordance with local regulations.

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7. Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Ensure adequate ventilation and/or use local extraction

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: Oxidizing agents, free-radical initiators, reducing metal oxides. Do not allow to contact or store in aluminum, mild steel, rusty steel, copper or alloys of tin vessels.

For safe storage, store at or below 38°C (100°F). Keep in a cool, dry well-ventilated area out of direct sunlight. Keep away from sources of ignition. Store in tightly closed, labeled containers. Can be stored in LDPE containers. Do not allow to contact or store in aluminum, mild steel, rusty steel, copper or (alloys of) or tin vessels.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0000080-15-9	Cumene hydroperoxide	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0000110-16-7	Maleic acid	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0000923-26-2	PROPENOIC ACID, 2-METHYL-, 2-HYDROXYPROPYL ESTER	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0024448-20-2	PROPENOIC ACID, 2-METHYL-, (1-METHYLETHYLIDENE)BIS	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0027813-02-1	Hydroxypropyl methacrylate	OSHA	No Established Limit

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0039382-25-7	BUTENEDIOIC ACID (2E)-, POLYMER WITH .ALPHA.,.ALPH	ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0000080-15-9	Cumene hydroperoxide	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000110-16-7	Maleic acid	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000923-26-2	PROPENOIC ACID, 2-METHYL-, 2-HYDROXYPROPYL ESTER	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0024448-20-2	PROPENOIC ACID, 2-METHYL-, (1-METHYLETHYLIDENE)BIS	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0027813-02-1	Hydroxypropyl methacrylate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0039382-25-7	BUTENEDIOIC ACID (2E)-, POLYMER WITH .ALPHA.,.ALPH	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls

Respiratory

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes

Wear eye goggles, such as rated to BS EN 166. Ensure eye-wash facilities/station are close to hand

Skin

Wear overalls to keep skin contact to a minimum. Wear gloves-polythene, neoprene or nitrile. Do not use PVC or latex.

Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits

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suitable respiratory protection must be worn.

Other Work Practices Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	Blue Liquid
Odor	Slight Sweet
Odor threshold	Not Measured
pH	~3-5
Melting point / freezing point	Not Measured
Initial boiling point and boiling range	> 300 F
Flash Point	> 200 F
Evaporation rate (Ether = 1)	Not Measured
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Measured Upper Explosive Limit: Not Measured
Vapor pressure (Pa)	< 5mmHg (at 80 F)
Vapor Density	Not Measured
Specific Gravity	1.11 (at 80 F)
Solubility in Water	Low solubility in water
Partition coefficient n-octanol/water (Log Kow)	< 3
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured
VOC Content	38.4%; 426 g/L (EPA Method 24)
Flammability	Non-flammable
Solubility in organic solvent	Miscible in organic solvents, e.g. acetone

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

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Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Elevated temperatures, direct sunlight, sources of ignition, low oxygen environments. Hazardous exothermic polymerization can occur if exposed to elevated temperatures for periods of time. Air space/oxygen above the product is vital to keep formulatory inhibitors active.

10.5. Incompatible materials

Oxidizing agents, free-radical initiators, reducing metal oxides. Do not allow to contact or store in aluminum, mild steel, rusty steel, copper or alloys of tin vessels.

10.6. Hazardous decomposition products

Combustion/exothermic polymerization will generate oxides of carbon, acrid smoke and irritating fumes.

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
PROPENOIC ACID, 2-METHYL-, (1-METHYLETHYLIDENE)BIS - (24448-20-2)	No data available	No data available	No data available	No data available	No data available
PROPENOIC ACID, 2-METHYL-, 2-HYDROXYPROPYL ESTER - (923-26-2)	No data available	No data available	No data available	No data available	No data available
BUTENEDIOIC ACID (2E)-, POLYMER WITH .ALPHA.,.ALPH - (39382-25-7)	No data available	No data available	No data available	No data available	No data available
Hydroxypropyl methacrylate - (27813-02-1)	4,000.00, Rat - Category: 5	3,000.00, Rabbit - Category: 5	No data available	No data available	No data available
Cumene hydroperoxide - (80-15-9)	382.00, Rat - Category: 4	500.00, Rabbit - Category: 3	No data available	No data available	220.00, Rat - Category: 2
Maleic acid - (110-16-7)	No data available	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	4	Harmful if inhaled.
Skin corrosion/irritation	2	Causes skin irritation.

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Serious eye damage/irritation	2	Causes serious eye irritation.
Respiratory sensitization	---	Not Applicable
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	2	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. Toxicity

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
PROPENOIC ACID, 2-METHYL-, (1-METHYLETHYLIDENE)BIS - (24448-20-2)	Not Available	Not Available	Not Available
PROPENOIC ACID, 2-METHYL-, 2-HYDROXYPROPYL ESTER - (923-26-2)	Not Available	Not Available	Not Available
BUTENEDIOIC ACID (2E)-, POLYMER WITH .ALPHA.,.ALPH - (39382-25-7)	Not Available	Not Available	Not Available
Hydroxypropyl methacrylate - (27813-02-1)	493.00, Leuciscus idus	Not Available	Not Available
Cumene hydroperoxide - (80-15-9)	3.90, Oncorhynchus mykiss	7.00, Daphnia magna	Not Available
Maleic acid - (110-16-7)	Not Available	Not Available	Not Available

12.2. Persistence and degradability

Considered to be biodegradable – testing of one major (non-declarable) component gave a biodegradability result of 85% after 28 days.

12.3. Bioaccumulative potential

Expected to be low

12.4. Mobility in soil

Considered to be biodegradable – testing of one major (non-declarable) component gave a biodegradability result of 85% after 28 days.

12.5. Results of PBT and vPvB assessment

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This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Do not discharge into drains or watercourses. Dispose of product through properly licensed contractors under national and local legislation. Product residues can be cleaned out of containers. Dispose of in accordance with the Special Waste Regulations 1996.

Alternatively, product can be polymerized using Fas-Lok 3049 activator (care should be taken if polymerizing a large quantity of product due to exothermic reaction). Hardened product can be disposed of as chemical waste by incineration or licensed contractors. Clean containers can be disposed of by landfill or incineration or possibly recycled.

14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Applicable	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental hazards			
IMDG	Marine Pollutant: No		
14.6. Special precautions for user	No further information		

15. Regulatory information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.
WHMIS Classification	D2B

US EPA Tier II Hazards

Fire: No

Sudden Release of Pressure: No

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Reactive: No

Immediate (Acute): Yes

Delayed (Chronic): Yes

EPCRA 311/312 Chemicals and RQs (lbs):

Cumene hydroperoxide (10.00)

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

Cumene hydroperoxide

Proposition 65

Warning, this product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Propylene oxide (ppb levels of arsenic, Cd, Pb, Ni). This product contains Saccharin. No Prop 65 hazard warning is necessary if this product is used as reasonably anticipated.

New Jersey RTK Substances (>1%):

Cumene hydroperoxide

Pennsylvania RTK Substances (>1%):

Cumene hydroperoxide

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H242 Heating may cause a fire.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

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This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

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