

SAFETY DATA SHEET**Foster® CRYOLAR™ 90-61**

Version 1.3

Revision Date 01/04/2024

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Foster® CRYOLAR™ 90-61
Product code : 100000015225

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 : Solvent based adhesive
Restrictions on use : For industrial use only.



SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Appearance	liquid
Color	gray
Odor	solvent

GHS Classification

Flammable liquids : Category 3
Skin irritation : Category 2
Eye irritation : Category 2A
Skin sensitization : Category 1

GHS label elements

Hazard pictograms :  

Signal Word : Warning

Hazard Statements:

H226 Flammable liquid and vapor. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

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Precautionary Statements:

Prevention: P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. 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: P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage: P403 + P235 Store in a well-ventilated place. Keep cool.

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

Potential Health Effects
Carcinogenicity:
IARC

Group 1: Carcinogenic to humans

 Quartz (SiO₂) 14808-60-7

Group 2B: Possibly carcinogenic to humans

cumene 98-82-8

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

Known to be human carcinogen

 Quartz (SiO₂) 14808-60-7

Reasonably anticipated to be a human carcinogen

cumene 98-82-8

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical name	CAS-No.	Concentration [%]
Limestone	1317-65-3	20 - 30
Solvent naphtha (petroleum), light arom.	64742-95-6	10 - 20
trimethylbenzene	25551-13-7	5 - 10
1,2,4-trimethylbenzene	95-63-6	5 - 10
Mica	12001-26-2	1 - 5
Stoddard solvent	8052-41-3	1 - 5
mesitylene	108-67-8	1 - 5

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Titanium dioxide	13463-67-7	1 - 5
Wollastonite (Ca(SiO ₃))	13983-17-0	1 - 5
cumene	98-82-8	1 - 5
Xylene	1330-20-7	1 - 5
1,2,3-trimethylbenzene	526-73-8	1 - 5
2-(propyloxy)ethanol	2807-30-9	1 - 5
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	41556-26-7	0.1 - 1
Quartz (SiO ₂)	14808-60-7	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.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Wash off with soap and water.
Get medical attention if irritation develops and persists.
- 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 victim is fully conscious, give a cupful of water.
Never give anything by mouth to an unconscious person.
Obtain medical attention.
- Most important symptoms and effects, both acute and delayed : Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards during fire fighting : Cool closed containers exposed to fire with water spray.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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- Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition.
 Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
 Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Prevent spreading over a wide area (e.g., by containment or oil barriers).
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material.
 Sweep up and shovel into suitable containers for disposal.
 Non-sparking tools should be used.

SECTION 7. HANDLING AND STORAGE

- Local/Total ventilation : Use only with adequate ventilation.
- Advice on safe handling : Avoid inhalation of vapor or mist.
 Do not use in areas without adequate ventilation.
 Keep away from fire, sparks and heated surfaces.
 Keep container closed when not in use.
 Take precautionary measures against static discharges.
- Conditions for safe storage : Take measures to prevent the build up of electrostatic charge.
 Use explosion-proof equipment.
 Keep containers tightly closed in a dry, cool and well-ventilated place.
 Keep away from sources of ignition - No smoking.
 Solvent vapors are heavier than air and may spread along floors.
- Materials to avoid : Strong oxidizing agents

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Limestone	1317-65-3	TWA (Respirable)	5 mg/m ³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (Respirable)	5 mg/m ³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA	5 mg/m ³	NIOSH REL

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		(Respirable)		
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (respirable fraction)	5 mg/m ³	OSHA Z-1
		TWA (Total)	15 mg/m ³	OSHA P0
		TWA (Respirable fraction)	5 mg/m ³	OSHA P0
		TWA (Total dust)	15 mg/m ³	OSHA P0
		TWA (respirable dust fraction)	5 mg/m ³	OSHA P0
Solvent naphtha (petroleum), light arom.	64742-95-6	TWA	500 ppm 2,000 mg/m ³	OSHA Z-1
		TWA	200 mg/m ³	ACGIH
		TWA	400 ppm 1,600 mg/m ³	OSHA P0
trimethylbenzene	25551-13-7	TWA	25 ppm	ACGIH
		TWA	25 ppm 125 mg/m ³	OSHA P0
1,2,4-trimethylbenzene	95-63-6	TWA	10 ppm	ACGIH
Mica	12001-26-2	TWA (Respirable particulate matter)	0.1 mg/m ³	ACGIH
		TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable fraction)	3 mg/m ³	OSHA P0
		TWA (Respirable)	3 mg/m ³	NIOSH REL
Stoddard solvent	8052-41-3	TWA	100 ppm	ACGIH
		TWA	350 mg/m ³	NIOSH REL
		C	1,800 mg/m ³	NIOSH REL
		TWA	500 ppm 2,900 mg/m ³	OSHA Z-1
		TWA	100 ppm 525 mg/m ³	OSHA P0
Titanium dioxide	13463-67-7	TWA	10 mg/m ³	ACGIH
		TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (Total)	10 mg/m ³	OSHA P0
		TWA (Total dust)	10 mg/m ³	OSHA P0

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Wollastonite (Ca(SiO ₃))	13983-17-0	TWA (Inhalable particulate matter)	1 mg/m ³	ACGIH
cumene	98-82-8	TWA	5 ppm	ACGIH
		TWA	50 ppm 245 mg/m ³	NIOSH REL
		TWA	50 ppm 245 mg/m ³	OSHA Z-1
		TWA	50 ppm 245 mg/m ³	OSHA P0
		PEL	50 ppm 245 mg/m ³	CAL PEL
Xylene	1330-20-7	TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		STEL	150 ppm 655 mg/m ³	OSHA P0
		TWA	100 ppm 435 mg/m ³	OSHA P0
		TWA	100 ppm 435 mg/m ³	OSHA Z-1
		STEL	150 ppm 655 mg/m ³	CAL PEL
		C	300 ppm	CAL PEL
		PEL	100 ppm 435 mg/m ³	CAL PEL
		TWA	20 ppm	ACGIH
		TWA	100 ppm 435 mg/m ³	OSHA P0
		STEL	150 ppm 655 mg/m ³	OSHA P0
1,2,3-trimethylbenzene	526-73-8	TWA	25 ppm 125 mg/m ³	NIOSH REL
Quartz (SiO ₂)	14808-60-7	TWA	10 ppm	ACGIH
		TWA (Respirable particulate matter)	0.025 mg/m ³	ACGIH
		TWA (total dust)	30 mg/m ³ / %SiO ₂ +2	OSHA Z-3
		TWA (respirable)	10 mg/m ³ / %SiO ₂ +2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO ₂ +5	OSHA Z-3
		TWA (Respirable fraction)	0.1 mg/m ³	OSHA P0
		TWA (Respirable dust)	0.05 mg/m ³	OSHA Z-1
		PEL	0.05 mg/m ³	CAL PEL

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		(Respirable dust)		
		TWA (respirable dust fraction)	0.1 mg/m3	OSHA P0

Engineering measures : Use local exhaust ventilation or other engineering controls to minimize exposures.

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.

Filter type : Organic vapor Type

Hand protection
Material : Nitrile rubber

Eye protection : Safety glasses with side-shields

Hygiene measures : Avoid contact with skin, eyes and clothing.
Provide adequate ventilation.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
 Color : gray
 Odor : solvent
 Odor Threshold : no data available
 pH : Not applicable
 Melting point/freezing point : is not determined
 Boiling point/boiling range : is not determined
 Flash point : 46 °C Method: Tag closed cup
 Evaporation rate : is not determined
 Upper explosion limit : Upper flammability limit is not determined
 Lower explosion limit : Lower flammability limit is not determined
 Vapor pressure : is not determined
 Density : 9.1 - 9.5 lb/gal
 Solubility(ies)
 Water solubility : is not determined

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Partition coefficient: n-octanol/water : no data available

Autoignition temperature : is not determined

Viscosity

Viscosity, kinematic : is not determined

VOC, less water, in g/l : 484

SECTION 10. STABILITY AND REACTIVITY

Chemical stability : The product is chemically stable.

Possibility of hazardous reactions : Hazardous polymerization does not occur.

Conditions to avoid : Heat, flames and sparks.

Hazardous decomposition products : Stable under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity****Product:**Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation methodAcute inhalation toxicity : Acute toxicity estimate : > 200 mg/l
Exposure time: 4 Hours
Test atmosphere: vapor
Method: Calculation methodAcute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation method**Components:****Solvent naphtha (petroleum), light arom.:**Acute inhalation toxicity : LC50 Rat: > 5.2 mg/l
Exposure time: 4 h
Test atmosphere: vapor

Acute dermal toxicity : LD50 Dermal Rabbit: > 2,000 mg/kg

1,2,4-trimethylbenzene:

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Acute oral toxicity	: LD50 Oral Rat: 3,400 mg/kg
Acute inhalation toxicity	: LC50 Rat: 18 mg/l Exposure time: 4 h Test atmosphere: vapor
Acute dermal toxicity	: LD50 Dermal Rabbit: > 3,160 mg/kg
cumene:	
Acute oral toxicity	: LD50 Oral Rat: 1,400 mg/kg
Xylene:	
Acute oral toxicity	: LD50 Oral Rat: 4,300 mg/kg
Acute inhalation toxicity	: LC50 Rat: 47,635 mg/l Exposure time: 4 h Test atmosphere: vapor
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate:	
Acute oral toxicity	: LD50 Oral Rat: 2,615 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

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No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Solvent naphtha (petroleum), light arom. :**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 9.22 mg/l
Exposure time: 96 h
Test Method: static test

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 6.14 mg/l
aquatic invertebrates Exposure time: 48 h
Test Method: static test

1,2,4-trimethylbenzene :

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 7.19 - 8.28
mg/l
Exposure time: 96 h
Test Method: flow-through test

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 6.14 mg/l
aquatic invertebrates Exposure time: 48 h
Test Method: static test

mesitylene :

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 3.48 mg/l
Exposure time: 96 h
Test Method: static test

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 50 mg/l
aquatic invertebrates Exposure time: 24 h
Test Method: static test

cumene :

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2.7 mg/l
Exposure time: 96 h
Test Method: semi-static test

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.6 mg/l
aquatic invertebrates Exposure time: 48 h
Test Method: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 2.6 mg/l
Exposure time: 72 h
Test Type: flow-through test

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bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate :

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.97 mg/l
Exposure time: 96 h
Test Method: static test

Persistence and degradability

No data available

Bioaccumulative potential**Components:****1,2,4-trimethylbenzene :**

Partition coefficient: n-octanol/water : log Pow: 3.78

mesitylene :

Partition coefficient: n-octanol/water : log Pow: 3.42

cumene :

Partition coefficient: n-octanol/water : log Pow: 3.66

Xylene :

Partition coefficient: n-octanol/water : log Pow: 2.77 - 3.15GLP: no

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : This product meets the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. It is ignitable waste class D001. Disposal via incineration is recommended. Consult your state, local, or provincial authorities for more restrictive requirements.
The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

SECTION 14. TRANSPORT INFORMATION**International Regulations****IATA-DGR**

UN/ID No. : UN 1993
Proper shipping name : Flammable liquid, n.o.s.
(PETROLEUM DISTILLATES)

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Class : 3
Packing group : III
Labels : Flammable Liquids

IMDG-Code

UN number : UN 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(PETROLEUM DISTILLATES)

Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-E
Marine pollutant : yes

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**

UN/ID/NA number : UN 1993
Proper shipping name : Flammable liquids, n.o.s.
(PETROLEUM DISTILLATES)

Class : 3
Packing group : III
Labels : FLAMMABLE LIQUID
ERG Code : 128
Marine pollutant : yes

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
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 : The following components are subject to reporting levels established by SARA Title III, Section 313:

1,2,4-trimethylbenzene

95-63-6

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cumene	98-82-8
Xylene	1330-20-7
2-(propyloxy)ethanol	2807-30-9

Clean Air Act

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

cumene	98-82-8
Xylene	1330-20-7
2-(propyloxy)ethanol	2807-30-9

US State Regulations

California Prop 65 Please contact Supplier for more information.

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

TCSI	On the inventory, or in compliance with the inventory
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
PICCS	On the inventory, or in compliance with the inventory
IECSC	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)

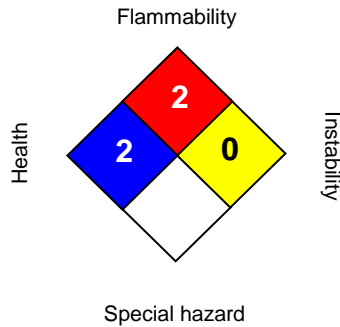
SECTION 16. OTHER INFORMATION

Prepared by: Global Regulatory Office - phone: 1-651-236-5842 - email: msds.request@hbfuller.com

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Further information
NFPA:

HMIS III:

HEALTH	2/
FLAMMABILITY	2
PHYSICAL HAZARD	0

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

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.