

**SAFETY DATA SHEET****Foster® 90-66B**

Version 1.1

Revision Date 08/07/2024

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Foster® 90-66B  
Product code : 100000015062

**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	black
Odor	solvent

**GHS Classification**

Flammable liquids : Category 3  
Skin irritation : Category 2  
Reproductive toxicity : Category 2  
Specific target organ toxicity -  
repeated exposure : Category 2  
Aspiration hazard : Category 1

**GHS label elements**

Hazard pictograms :   

Signal Word : Danger

**Hazard Statements:**

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H226 Flammable liquid and vapor. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H361d Suspected of damaging the unborn child. H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statements:**

**Prevention:** P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. 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. P260 Do not breathe mist or vapors. P264 Wash skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:** P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P331 Do NOT induce vomiting. P332 + P313 If skin irritation occurs: 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. P405 Store locked up.

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

**Potential Health Effects**
**Carcinogenicity:**
**IARC**

Group 2B: Possibly carcinogenic to humans

Carbon black 1333-86-4

cumene 98-82-8

**OSHA**

Group 2B: Possibly carcinogenic to humans

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**

Reasonably anticipated to be a human carcinogen

cumene 98-82-8

Reasonably anticipated to be a human carcinogen

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous ingredients**

Chemical name	CAS-No.	Concentration [%]
Carbon black	1333-86-4	30 - 50
Toluene	108-88-3	5 - 10
Manganese dioxide	1313-13-9	5 - 10
1,2,4-trimethylbenzene	95-63-6	1 - 5

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Terphenyl, hydrogenated	61788-32-7	1 - 5
Solvent naphtha (petroleum), light arom.	64742-95-6	1 - 5
cumene	98-82-8	0.1 - 1

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

- General advice : If on clothes, remove clothes.  
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 : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.  
Call a physician if irritation develops or 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 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 : May be fatal if swallowed and enters airways.  
Causes skin irritation.  
Suspected of damaging the unborn child.  
May cause damage to organs through prolonged or repeated exposure.
- Notes to physician : No further relevant information available.

**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water mist  
Foam  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)

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Unsuitable extinguishing media	: Do NOT use water jet.
Specific hazards during fire fighting	: May release toxic, irritating and/or corrosive gases. In case of fire, the following substance(s) may occur: 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	: Wear self-contained breathing apparatus for firefighting if necessary.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures	: Remove all sources of ignition. Use personal protective equipment. Use breathing protection against the effects of fumes/dust/aerosol. Evacuate personnel to safe areas. Ensure adequate ventilation.  : Refer to protective measures listed in sections 7 and 8.
Environmental precautions	: Prevent the material from reaching sewage system, holes and cellars.  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.
Methods and materials for containment and cleaning up	: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Non-sparking tools should be used. Ensure adequate ventilation. Send for recovery or disposal in suitable containers.  Dispose of contaminated material as waste according to section 13.

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**SECTION 7. HANDLING AND STORAGE**

Local/Total ventilation	: Use only with adequate ventilation.
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- Advice on safe handling : Avoid formation of dust and aerosols.  
 Take note of emission threshold.  
 Use solvent-proof equipment.  
 Handle with care.  
 Keep eye wash bottle available on working place.  
 Keep out of reach of children.  
 Avoid release to the environment.  
 Take precautionary measures against static discharges.
- Conditions for safe storage : Use explosion-proof equipment.  
 Keep tightly closed in a dry, cool and well-ventilated place.  
 Do not freeze.
- Materials to avoid : Do not store together with oxidizing and self-igniting products.

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Carbon black	1333-86-4	TWA	3.5 mg/m <sup>3</sup>	ACGIH
		TWA	3.5 mg/m <sup>3</sup>	OSHA Z-1
		TWA	3.5 mg/m <sup>3</sup>	OSHA P0
		TWA (Inhalable particulate matter)	3 mg/m <sup>3</sup>	ACGIH
		PEL	3.5 mg/m <sup>3</sup>	CAL PEL
Toluene	108-88-3	TWA	20 ppm	ACGIH
		TWA	100 ppm 375 mg/m <sup>3</sup>	NIOSH REL
		TWA	100 ppm 375 mg/m <sup>3</sup>	NIOSH REL
		ST	150 ppm 560 mg/m <sup>3</sup>	NIOSH REL
		ST	150 ppm 560 mg/m <sup>3</sup>	NIOSH REL
		TWA	200 ppm	OSHA Z-2
		CEIL	300 ppm	OSHA Z-2
		Peak	500 ppm	OSHA Z-2
		STEL	150 ppm 560 mg/m <sup>3</sup>	OSHA P0
		TWA	100 ppm 375 mg/m <sup>3</sup>	OSHA P0
		PEL	10 ppm	CAL PEL

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			37 mg/m <sup>3</sup>	
		C	500 ppm	CAL PEL
		STEL	150 ppm 560 mg/m <sup>3</sup>	CAL PEL
Manganese dioxide	1313-13-9	C	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA	0.2 mg/m <sup>3</sup>	ACGIH
		C	5 mg/m <sup>3</sup>	OSHA P0
		ST	3 mg/m <sup>3</sup>	NIOSH REL
		C	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Inhalable particulate matter)	0.1 mg/m <sup>3</sup>	ACGIH
		TWA (Respirable particulate matter)	0.02 mg/m <sup>3</sup>	ACGIH
		C	5 mg/m <sup>3</sup>	OSHA P0
		TWA	1 mg/m <sup>3</sup>	NIOSH REL
		ST	3 mg/m <sup>3</sup>	NIOSH REL
1,2,4-trimethylbenzene	95-63-6	TWA	10 ppm	ACGIH
Terphenyl, hydrogenated	61788-32-7	TWA	0.5 ppm	ACGIH
		TWA	0.5 ppm 5 mg/m <sup>3</sup>	NIOSH REL
		TWA	0.5 ppm 5 mg/m <sup>3</sup>	OSHA P0
		PEL	0.5 ppm 5 mg/m <sup>3</sup>	CAL PEL
Solvent naphtha (petroleum), light arom.	64742-95-6	TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA Z-1
		TWA	200 mg/m <sup>3</sup>	ACGIH
		TWA	400 ppm 1,600 mg/m <sup>3</sup>	OSHA P0
cumene	98-82-8	TWA	5 ppm	ACGIH
		TWA	50 ppm 245 mg/m <sup>3</sup>	NIOSH REL
		TWA	50 ppm 245 mg/m <sup>3</sup>	OSHA Z-1
		TWA	50 ppm 245 mg/m <sup>3</sup>	OSHA P0
		PEL	50 ppm 245 mg/m <sup>3</sup>	CAL PEL

**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

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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  
Ensure that suitable extractors are available on processing machines.

Filter type : Organic vapor type or equipment with better protection

Hand protection

Material

Remarks

: Solvent-resistant gloves  
: 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

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	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. Provide adequate ventilation.  Wear suitable protective clothing.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: liquid
Color	: black
Odor	: solvent
Odor Threshold	: is not determined
pH	: is not determined
Melting point/freezing point	: is not determined
Evaporation rate	: is not determined
Relative vapor density	: is not determined
Density	: 9.3 - 9.9 lb/gal
Solubility(ies)	
Water solubility	: not miscible or difficult to mix
Partition coefficient: n-octanol/water	: no data available
Autoignition temperature	: is not determined
Thermal decomposition	: Not applicable
Explosive properties	: Product is not explosive. However, formation of explosive vapor/air mixtures is possible.
VOC, less water, in g/l	: 286

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**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	: Develops readily flammable vapors/fumes.
Conditions to avoid	: Heat, flames and sparks.



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Incompatible materials : No further relevant information available.

Hazardous decomposition products : No decomposition if stored and applied as directed.

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

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

Acute inhalation toxicity : Acute toxicity estimate : 135.48 mg/l  
Exposure time: 4 Hours  
Test atmosphere: vapor  
Method: Calculation method

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

**Components:****Toluene:**

Acute oral toxicity : LD50 Oral Rat: 5,580 mg/kg

Acute inhalation toxicity : LC50 Rat: 12.5 mg/l  
Exposure time: 4 h

**1,2,4-trimethylbenzene:**

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

**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

**cumene:**

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Acute oral toxicity : LD50 Oral Rat: 1,400 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****Components:****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 testToxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 6.14 mg/l  
Exposure time: 48 h  
Test Method: static test**Terphenyl, hydrogenated :**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): &gt; 0.53 mg/l

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Exposure time: 96 h  
Test Method: static testToxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.011 mg/l  
Exposure time: 48 h  
Test Method: static testToxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): > 0.53 mg/l  
Exposure time: 96 h  
Test Type: flow-through test**Solvent naphtha (petroleum), light arom. :**Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 9.22 mg/l  
Exposure time: 96 h  
Test Method: static testToxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 6.14 mg/l  
Exposure time: 48 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 testToxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.6 mg/l  
Exposure time: 48 h  
Test Method: static testToxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 2.6 mg/l  
Exposure time: 72 h  
Test Type: flow-through test**Persistence and degradability**

No data available

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

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

**cumene :**

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

**Mobility in soil****Product:**Mobility : Medium: Soil  
Remarks: Do not allow product to reach ground water, water

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bodies or sewage system.

**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.
- Contaminated packaging : Disposal must be made according to official regulations.

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

- UN/ID No. : UN 1139  
Proper shipping name : Coating solution  
Class : 3  
Packing group : III  
Labels : Flammable Liquids

**IMDG-Code**

- UN number : UN 1139  
Proper shipping name : COATING SOLUTION  
(Terphenyl, hydrogenated)  
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 1139  
Proper shipping name : Coating solution  
Class : 3  
Packing group : III  
Labels : FLAMMABLE LIQUID

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ERG Code : 127  
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)  
Reproductive toxicity  
Specific target organ toxicity (single or repeated exposure)  
Aspiration hazard  
Skin corrosion or 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:

Toluene	108-88-3
Manganese dioxide	1313-13-9
1,2,4-trimethylbenzene	95-63-6
cumene	98-82-8

**Clean Air Act**

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

Toluene	108-88-3
Manganese dioxide	1313-13-9

**US State Regulations**

**California Prop 65** Please contact Supplier for more information.

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

<b>TCSI</b>	On the inventory, or in compliance with the inventory
<b>TSCA</b>	All substances listed as active on the TSCA inventory
<b>AIIC</b>	On the inventory, or in compliance with the inventory
<b>REACH</b>	Not in compliance with the inventory
<b>DSL</b>	All components of this product are on the Canadian DSL
<b>ENCS</b>	On the inventory, or in compliance with the inventory

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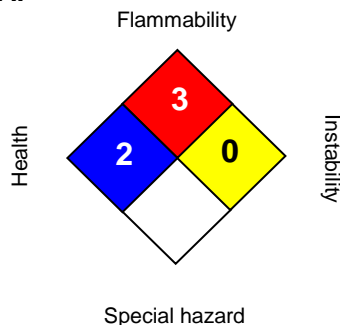
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<b>ISHL</b> <b>KECI</b> <b>PICCS</b> <b>IECSC</b> <b>NZIoC</b> <b>CHINV</b>  <b>TECI</b> <b>Inventories Legend</b>	Not in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory Not in compliance with the inventory The mixture contains substances listed on the Swiss Inventory Not in compliance with the inventory Not in compliance with the inventory Not in compliance with the inventory TSCA (USA), DSL (Canada), REACH(Europe), AIC (Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)
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**SECTION 16. OTHER INFORMATION**

 Prepared by: Global Regulatory Department  
 AP-Regulaotry@hbfuller.com

**Further information**
**NFPA:**

**HMIS III:**

<b>HEALTH</b>	<b>3*</b>
<b>FLAMMABILITY</b>	<b>3</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

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.