

Foster® MONOLAR® 60-90

Version 1.5

Revision Date 12/04/2024

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Foster® MONOLAR® 60-90
Product code	:	10000015013

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 viscous liquid				
Color	white			
Odor	solvent			

GHS Classification

Flammable liquids Skin irritation Eye irritation Carcinogenicity Reproductive toxicity	 Category 3 Category 2 Category 2A Category 2 Category 1B 	
Effects on or via lactation Specific target organ toxicity - single exposure Aspiration hazard	: Category 3 (Respiratory system) : Category 1	
GHS label elements		
Hazard pictograms		>



Foster® MONOLAR® 60-90

Version 1.5

Revision Date 12/04/2024

Signal Word

: Danger

Hazard Statements:

H226 Flammable liquid and vapor. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H351 Suspected of causing cancer. H360 May damage fertility or the unborn child. H362 May cause harm to breast-fed children.

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. P261 Avoid breathing mist or vapors. P263 Avoid contact during pregnancy/ while nursing. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. 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. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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. 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 + P233 Store in a well-ventilated place. Keep container tightly closed. 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 1: Carcinogenic to hun	nans
Quartz (SiO2)	14808-60-7
Group 2B: Possibly carcinoge	nic to humans
Paraffin waxes and Hydrocarbon waxes, chloro	63449-39-8
Alkanes, chloro	61788-76-9
cumene	98-82-8
Group 1: Carcinogenic to hun	nans
Quartz (SiO2)	14808-60-7
Group 2B: Possibly carcinoge	enic to humans
Paraffin waxes and	63449-39-8
Hydrocarbon waxes, chloro	

2/15



Foster® MONOLAR® 60-90						
Version 1.5	Revision Date 12/04	Revision Date 12/04/2024				
	Alkanes, chloro	61788-76-9				
	cumene	98-82-8				
OSHA	equal to 0.1% is on OSH No component of this pro	oduct present at levels greater than or A's list of regulated carcinogens. oduct present at levels greater than or A's list of regulated carcinogens.				
	Quartz (SiO2)	14808-60-7				
	Reasonably anticipated to b Paraffin waxes and	63449-39-8				
	Hydrocarbon waxes, chloro					
	cumene	98-82-8				
	diantimony trioxide	1309-64-4				
	Known to be human carcino	ogen				
	Quartz (SiO2)	14808-60-7				
	Reasonably anticipated to b	e a human carcinogen				
	Paraffin waxes and Hydrocarbon waxes, chloro	63449-39-8				
	cumene	98-82-8				
	diantimony trioxide	1309-64-4				

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical name	CAS-No.	Concentration [%]
Feldspar-group minerals	68476-25-5	10 - 20
1,2,4-trimethylbenzene	95-63-6	10 - 20
Paraffin waxes and Hydrocarbon waxes, chloro	63449-39-8	5 - 10
Alkanes, chloro	61788-76-9	5 - 10
Alkanes, C14-17, chloro	85535-85-9	5 - 10
Titanium dioxide	13463-67-7	5 - 10
Solvent naphtha (petroleum), light arom.	64742-95-6	1 - 5
Wollastonite (Ca(SiO3))	13983-17-0	1 - 5
mesitylene	108-67-8	1 - 5
Quaternary ammonium compounds,	71011-27-3	1 - 5



Foster® MONOLAR® 60-90

Version 1.5

Revision Date 12/04/2024

bis(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with hectorite		
Quartz (SiO2)	14808-60-7	1 - 5
Xylene	1330-20-7	1 - 5
cumene	98-82-8	1 - 5
2-(propyloxy)ethanol	2807-30-9	1 - 5
trimethylbenzene	25551-13-7	1 - 5
diisooctyl 4,4'-[(dibutylstannylene)bis(oxy)]bis[4- oxoisocrotonate]	25168-21-2	0.1 - 1
diantimony trioxide	1309-64-4	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	:	May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Suspected of causing cancer. May damage fertility or the unborn child. May cause harm to breast-fed children.

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	:	In the event of fire, wear self-contained breathing apparatus.



Foster® MONOLAR® 60-90		
Version 1.5	Revision Date 12/04/2024	
for fire-fighters	Use personal protective equipment.	
SECTION 6. ACCIDENTAL RELEASE MEASURES		
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
1,2,4-trimethylbenzene	95-63-6	TWA	10 ppm	ACGIH
Titanium dioxide	13463-67-7	TWA	10 mg/m3	ACGIH



Foster® MONOLAR® 60-90

Version 1.5

Revision Date 12/04/2024

		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (Total)	10 mg/m3	OSHA P0
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA (Respirable particulate matter)	0.2 mg/m3	ACGIH
		TWA (Respirable particulate matter)	2.5 mg/m3	ACGIH
Solvent naphtha (petroleum), light arom.	64742-95-6	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	200 mg/m3	ACGIH
		TWA	400 ppm 1,600 mg/m3	OSHA P0
Wollastonite (Ca(SiO3))	13983-17-0	TWA (Inhalable particulate matter)	1 mg/m3	ACGIH
Quartz (SiO2)	14808-60-7	TWA (Respirable particulate matter)	0.025 mg/m3	ACGIH
		TWA (total dust)	30 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respirable)	10 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO2+5	OSHA Z-3
		TWA (Respirable fraction)	0.1 mg/m3	OSHA PO
		TWA (Respirable dust)	0.05 mg/m3	OSHA Z-1
		PEL (Respirable dust)	0.05 mg/m3	CAL PEL
		TWA (respirable dust fraction)	0.1 mg/m3	OSHA P0
Xylene	1330-20-7	TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		STEL	150 ppm 655 mg/m3	OSHA P0
		TWA	100 ppm 435 mg/m3	OSHA P0
		TWA	100 ppm	OSHA Z-1



Foster® MONOLAR® 60-90

Version 1.5

Revision Date 12/04/2024

			435 mg/m3	
		STEL	150 ppm	CAL PEL
			655 mg/m3	
		С	300 ppm	CAL PEL
		PEL	100 ppm	CAL PEL
			435 mg/m3	
		TWA	20 ppm	ACGIH
cumene	98-82-8	TWA	5 ppm	ACGIH
		TWA	50 ppm	NIOSH REL
			245 mg/m3	
		TWA	50 ppm	OSHA Z-1
			245 mg/m3	
		TWA	50 ppm	OSHA P0
			245 mg/m3	
		PEL	50 ppm	CAL PEL
			245 mg/m3	
trimethylbenzene	25551-13-7	TWA	25 ppm	ACGIH
		TWA	25 ppm	OSHA P0
			125 mg/m3	
		TWA	10 ppm	ACGIH
diisooctyl 4,4'-	25168-21-2	TWA	0.1 mg/m3	OSHA Z-1
[(dibutylstannylene)bis(oxy)]bis			-	
[4-oxoisocrotonate]				
		TWA	0.1 mg/m3	ACGIH
		STEL	0.2 mg/m3	ACGIH
		TWA	0.1 mg/m3	OSHA P0
		TWA	0.1 mg/m3	NIOSH REL
		PEL	0.1 mg/m3	CAL PEL
		STEL	0.2 mg/m3	CAL PEL
diantimony trioxide	1309-64-4	TWA	0.5 mg/m3	OSHA Z-1
•		TWA	0.5 mg/m3	OSHA P0
		TWA	0.02 mg/m3	ACGIH
		(Inhalable	Ŭ	
		particulate		
		matter)		

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
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 Material
 : Nitrile rubber

7/15



Fo	oster® MONOLAR® 60-90
Version 1.5	Revision Date 12/04/2024
Eye protection	: Safety glasses with side-shields
Hygiene measures	: Avoid contact with skin, eyes and clothing. Provide adequate ventilation.
SECTION 9. PHYSICAL AND CH	EMICAL PROPERTIES
Appearance Color Odor Odor Threshold	 viscous liquid white solvent no data available
рН	: Not applicable
Melting point/freezing point	: is not determined
Boiling point/boiling range	: is not determined
Flash point Evaporation rate Upper explosion limit	 : 43 °C : is not determined : Upper flammability limit is not determined
Lower explosion limit	: Lower flammability limit is not determined
Vapor pressure	: is not determined
Density Solubility(ies)	: 10.4 - 10.8 lb/gal
Water solubility Partition coefficient: n- octanol/water	is not determinedno data available
Autoignition temperature	: is not determined
Viscosity Viscosity, kinematic VOC, less water, in g/l	: is not determined : 513

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.



Foster® MONOLAR® 60-90

Version 1.5

Revision Date 12/04/2024

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 : 92.82 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:		
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)	li	ght 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
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
cumene: Acute oral toxicity	:	LD50 Oral Rat: 1,400 mg/kg

Skin corrosion/irritation



Foster® MONOLAR® 60-90

Version 1.5

Revision Date 12/04/2024

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-trimethylbenzer

1, 2 ,4-ti	imethy	/ibenz	ene	•

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 aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 6.14 mg/l Exposure time: 48 h Test Method: static test		
Paraffin waxes and Hydrocarbon waxes, chloro :			

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.0109 mg	j/l
	Exposure time: 96 h	
	Test Method: flow-through test	

Solvent naphtha (petroleum), light arom. :



Foster® MONOLAR® 60-90		
/ersion 1.5	Revision Date 12/04/2024	
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 aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 6.14 mg/l 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 aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 50 mg/l Exposure time: 24 h Test Method: static test	
Quaternary ammonium com compds. with hectorite :	pounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides,	
Toxicity to algae	 EC50 (Desmodesmus subspicatus (green algae)): >= 100 mg/l Exposure time: 72 h Test Type: flow-through 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 aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0.6 mg/l 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	
diantimony trioxide :		
Toxicity to fish	 LC50 (Pimephales promelas (fathead minnow)): > 80 mg/l Exposure time: 96 h Test Method: static test 	
Persistence and degradability		
lo data available Bioaccumulative potential		
Components:		
1,2,4-trimethylbenzene : Partition coefficient: n- octanol/water	: log Pow: 3.78	
	11 / 15	



Foster® MONOLAR® 60-90

Version 1.5

Revision Date 12/04/2024

Paraffin waxes and Hydroc Partition coefficient: n- octanol/water	a rbon waxes, chloro : : log Pow: 7.46 - 11.48 (20 °C) pH: 7 GLP: no
Alkanes, C14-17, chloro :	
Partition coefficient: n- octanol/water	: log Pow: 4.7 - 8.3GLP: no
Xylene :	
Partition coefficient: n- octanol/water	: log Pow: 2.77 - 3.15GLP: no
cumene :	
Partition coefficient: n- octanol/water	: log Pow: 3.66
Mobility in soil	
No data available	
Other adverse effects	
No data available	

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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.	Waste from residues	authorities for more restrictive requirements. The hazard and precautionary statements displayed on the
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SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR					
UN/ID No.	:	UN 3077			
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (Alkanes, C14-17, Chloro)			
Class	:	9			
Packing group	:	III			
Labels	:	Miscellaneous,			
Packing instruction (cargo aircraft)	:	956			
Packing instruction (passenger aircraft)	:	956			
IMDG-Code					
UN number	:	UN 3077			
12 / 15					



Foster® MONOLAR® 60-90

Version 1.5

Revision Date 12/04/2024

: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, Proper shipping name N.O.S. (Alkanes, C14-17, Chloro) Class 9 • Subsidiary risk ENVIRONM. ٠ Packing group Ш 9 (ENVIRONM.) Labels EmS Code F-A, S-F 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 Not regulated as a dangerous good

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) Carcinogenicity Reproductive toxicity Aspiration hazard Skin corrosion or irritation Serious eye damage or eye irritation Specific target organ toxicity (single or repeated exposure)	
SARA 302	: This material does not contain any compo EHS TPQ.	onents with a section 302
SARA 313	 The following components are subject to by SARA Title III, Section 313: 1,2,4-trimethylbenzene Xylene cumene 2-(propyloxy)ethanol 	reporting levels established 95-63-6 1330-20-7 98-82-8 2807-30-9



Foster® MONOLAR® 60-90

Version 1.5

Revision Date 12/04/2024

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

1330-20-7
98-82-8
2807-30-9
1309-64-4

US State Regulations

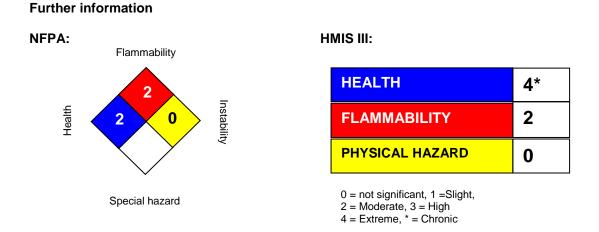
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California Prop 65
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Please contact Supplier for more information.

The ingredients of this product are reported in the following inventories:TSCAAll substances listed as active on the TSCA inventoryDSLAll components of this product are on the Canadian DSLENCSOn the inventory, or in compliance with the inventoryKECIOn the inventory, or in compliance with the inventoryIECSCOn the inventory, or in compliance with the inventoryPlease reach out to H.B. Fuller for further information regarding chemical inventories not listed
above.Inventories LegendTSCA (USA), DSL (Canada), REACH(Europe), AIIC (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



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



Foster® MONOLAR® 60-90

Version 1.5

Revision Date 12/04/2024

the responsibility of the user of H.B. Fuller Company products to comply with all applicable federal, state and local laws and regulations.