SAFETY DATA SHEET

WS-8070 B-2 Part A

Version 1.3 Revision Date 08/16/2023

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : WS-8070 B-2 Part A
Product code : 100000017898

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 : Hardening agent/ Curing agent

Restrictions on use : For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	paste
Color	black
Odor	mild

GHS Classification

Acute toxicity (Oral) : Category 4
Skin irritation : Category 2
Eye irritation : Category 2A

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements:
H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation.
Precautionary Statements:
Prevention: P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when

using this product. P280 Wear protective gloves/ eye protection/ face protection.
Response: P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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.
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 [%]
Manganese dioxide	1313-13-9	50 - 70
Terphenyl, hydrogenated	61788-32-7	30 - 50
Terphenyl	26140-60-3	1 - 5
sodium hydroxide	1310-73-2	1 - 5
zinc distearate	557-05-1	1 - 5
Distillates (petroleum), hydrotreated light	64742-47-8	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.

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.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water mist Dry powder Carbon dioxide (CO2) Alcohol-resistant foam Sand
Specific hazards during fire fighting	:	May release toxic, irritating and/or corrosive gases. In case of fire, the following substance(s) may occur: Sulphur oxides (SOx)
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.

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.
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
Manganese dioxide	1313-13-9	C	5 mg/m3	OSHA Z-1
		TWA	0.2 mg/m3	ACGIH
		C	5 mg/m3	OSHA P0
		ST	3 mg/m3	NIOSH REL
		C	5 mg/m3	OSHA Z-1
		TWA (Inhalable particulate matter)	0.1 mg/m3	ACGIH
		TWA (Respirable particulate matter)	0.02 mg/m3	ACGIH
		C	5 mg/m3	OSHA P0
		TWA	1 mg/m3	NIOSH REL
		ST	3 mg/m3	NIOSH REL
Terphenyl, hydrogenated	61788-32-7	TWA	0.5 ppm	ACGIH
		TWA	0.5 ppm 5 mg/m3	NIOSH REL
		TWA	0.5 ppm 5 mg/m3	OSHA P0
		PEL	0.5 ppm	CAL PEL

			5 mg/m3	
Terphenyl	26140-60-3	C	1 ppm 9 mg/m3	OSHA Z-1
		C	0.5 ppm 5 mg/m3	OSHA P0
		C	5 mg/m3	ACGIH
sodium hydroxide	1310-73-2	C	2 mg/m3	ACGIH
		TWA	2 mg/m3	OSHA Z-1
		C	2 mg/m3	OSHA P0
		C	2 mg/m3	CAL PEL
zinc distearate	557-05-1	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total)	10 mg/m3	OSHA P0
		TWA (Respirable fraction)	5 mg/m3	OSHA P0
		TWA	10 mg/m3	ACGIH
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0
		PEL	10 mg/m3	CAL PEL
		TWA (Inhalable particulate matter)	10 mg/m3	ACGIH
		TWA (Respirable particulate matter)	3 mg/m3	ACGIH
Distillates (petroleum), hydrotreated light	64742-47-8	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	200 mg/m3	ACGIH
		TWA	400 ppm 1,600 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
		PEL (particulate)	5 mg/m3	CAL PEL

Engineering measures : Please take care on 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 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	paste
Color	:	black
Odor	:	mild
Odor Threshold	:	is not determined
Melting point/freezing point	:	is not determined
Boiling point/boiling range	:	is not determined
Flash point	:	> 93.3 °C
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/cm³
Solubility(ies)		

Water solubility	:	insoluble
Solubility in other solvents	:	insoluble
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

Acute toxicity

Product:

Acute oral toxicity	:	Acute toxicity estimate : 952.61 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Remarks: The homogeneous mixing of this product is guaranteed through continuous physical tests. What were formerly dusty raw materials are completely integrated into the liquid/pasty mass. The possible risk “Hazardous on inhalation”, caused through formerly dusty raw materials, is therefore excluded in this mixture.
		Acute toxicity estimate : 21.04 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:

sodium hydroxide:
Acute dermal toxicity : LD50 Dermal Rabbit: 1,350 mg/kg

Distillates (petroleum), hydrotreated light:
Acute inhalation toxicity : LC50 Rat: > 5.2 mg/l
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

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:
Terphenyl, hydrogenated :

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 0.53 mg/l Exposure time: 96 h Test Method: static test
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.011 mg/l Exposure time: 48 h Test Method: static test
Toxicity to algae	:	EC50 (Pseudokirchneriella subcapitata (microalgae)): > 0.53 mg/l Exposure time: 96 h Test Type: flow-through test

Terphenyl :

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.11 mg/l Exposure time: 96 h Test Method: static test
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 0.11 mg/l Exposure time: 48 h Test Method: static test
Toxicity to algae	:	EC50 (Pseudokirchneriella subcapitata (microalgae)): 0.02 mg/l Exposure time: 96 h Test Type: flow-through test

sodium hydroxide :

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 45.4 mg/l Exposure time: 96 h Test Method: static test

Distillates (petroleum), hydrotreated light :

Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 2.2 mg/l Exposure time: 96 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

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

IATA-DGR

UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Terphenyl, hydrogenated, Terphenyl)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passenger aircraft)	:	964
Environmentally hazardous	:	yes

IMDG-Code

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Terphenyl, hydrogenated, Terphenyl)
Class	:	9
Packing group	:	III
Labels	:	9
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 : Acute toxicity (any route of exposure)
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:

Manganese dioxide	1313-13-9
zinc distearate	557-05-1

Clean Air Act

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

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:

TSCA All substances listed as active on the TSCA inventory

AIIC On the inventory, or in compliance with the inventory

DSL All components of this product are on the Canadian DSL

SAFETY DATA SHEET

WS-8070 B-2 Part A

Version 1.3 Revision Date 08/16/2023

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

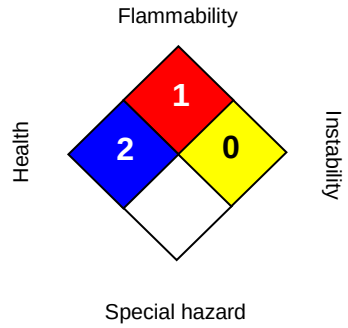
Inventories LegendTSCA (USA), DSL (Canada), REACH(Europe), AIIC (Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)

SECTION 16. OTHER INFORMATION

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

Further information

NFPA:



HMIS III:

HEALTH	2/
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.
Penetrometer test according to ADR 2.3.4.3
Test result: solid (penetration after 5 s < 15 mm)

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.

SAFETY DATA SHEET

WS-8070 B-2 Part B

Version 1.2 Revision Date 08/31/2023

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : WS-8070 B-2 Part B
Product code : 100000017895

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 : Sealant

Restrictions on use : For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	paste
Color	yellow
Odor	characteristic

GHS Classification

Flammable liquids : Category 3
Acute toxicity (Oral) : Category 4
Acute toxicity (Inhalation) : Category 2
Serious eye damage : Category 1
Skin sensitization : Category 1
Germ cell mutagenicity : Category 1B
Carcinogenicity (Inhalation) : Category 1B
Reproductive toxicity : Category 2
Specific target organ toxicity - repeated exposure : Category 2

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements:
H226 Flammable liquid and vapor. H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H330 Fatal if inhaled. H340 May cause genetic defects. H350 May cause cancer by inhalation. 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. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P284 Wear respiratory protection.
Response: P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. 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. P363 Wash contaminated clothing 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 humansDuring normal handling of the product, this substance is encapsulated within the product and will not present a cancer exposure risk.
Chromic acid (H2CrO4), magnesium salt (1:1) 13423-61-5

Group 2B: Possibly carcinogenic to humansDuring normal handling of the product, this substance is encapsulated within the product and will not present a cancer exposure risk.
Titanium dioxide 13463-67-7

Group 1: Carcinogenic to humans
Chromic acid (H2CrO4), 13423-61-5

magnesium salt (1:1)

OSHA OSHA specifically regulated carcinogen
Chromic acid (H2CrO4), magnesium salt (1:1) 13423-61-5

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.

Additional Labeling:

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 21.3925 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical name	CAS-No.	Concentration [%]
Calcium carbonate	471-34-1	10 - 20
Titanium dioxide	13463-67-7	5 - 10
Toluene	108-88-3	5 - 10
Chromic acid (H2CrO4), magnesium salt (1:1)	13423-61-5	1 - 5
phenol	108-95-2	0.1 - 1
o-cresol	95-48-7	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.
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 : 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.

Most important symptoms and effects, both acute and delayed	:	Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. Fatal if inhaled. May cause genetic defects. May cause cancer by inhalation. 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 Dry powder Carbon dioxide (CO2) Alcohol-resistant foam
Specific hazards during fire fighting	:	May release toxic, irritating and/or corrosive gases. In case of fire, the following substance(s) may occur: Sulphur oxides (SOx) Hydrogen sulphide
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.

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.

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
Calcium carbonate	471-34-1	PEL (Total dust)	10 mg/m3	CAL PEL
		PEL (respirable dust fraction)	5 mg/m3	CAL PEL
		TWA (Respirable)	5 mg/m3	NIOSH REL
		TWA (total)	10 mg/m3	NIOSH REL
Titanium dioxide	13463-67-7	TWA	10 mg/m3	ACGIH
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (Total)	10 mg/m3	OSHA P0
		TWA (Total dust)	10 mg/m3	OSHA P0
Toluene	108-88-3	TWA	20 ppm	ACGIH
		TWA	200 ppm	OSHA Z-2
		CEIL	300 ppm	OSHA Z-2
		Peak	500 ppm	OSHA Z-2
		TWA	100 ppm 375 mg/m3	OSHA P0

		STEL	150 ppm 560 mg/m3	OSHA P0
		PEL	10 ppm 37 mg/m3	CAL PEL
		C	500 ppm	CAL PEL
		STEL	150 ppm 560 mg/m3	CAL PEL
		CEIL	1 mg/10m3	OSHA Z-2
		TWA (Inhalable particulate matter)	0.0002 mg/m3	ACGIH
		STEL (Inhalable particulate matter)	0.0005 mg/m3	ACGIH
		PEL	0.005 mg/m3	OSHA CARC
		TWA	0.0002 mg/m3	NIOSH REL
		PEL	0.005 mg/m3	CAL PEL
		C	0.1 mg/m3	CAL PEL
phenol	108-95-2	TWA	5 ppm	ACGIH
		TWA	5 ppm 19 mg/m3	OSHA Z-1
		TWA	5 ppm 19 mg/m3	OSHA P0
		PEL	5 ppm 19 mg/m3	CAL PEL
o-cresol	95-48-7	TWA (Inhalable fraction and vapor)	20 mg/m3	ACGIH
		TWA	5 ppm 22 mg/m3	OSHA P0

Engineering measures : Please take care on 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 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
In case of insufficient ventilation wear suitable respiratory equipment in accordance with 29 CFR 1910.134

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	paste
Color	:	yellow
Odor	:	characteristic
Odor Threshold	:	is not determined
Melting point/freezing point	:	is not determined
Boiling point/boiling range	:	is not determined
Flash point	:	26 °C
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	:	1.45 g/cm3
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

Acute toxicity

Product:

Acute oral toxicity :

Acute toxicity estimate : 1,797 mg/kg
Method: Calculation method

Acute inhalation toxicity :

Acute toxicity estimate : 0.9178 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

phenol:

Acute dermal toxicity : LD50 Dermal Rabbit: 630 mg/kg

o-cresol:
Acute oral toxicity : LD50 Oral Rat: 121 mg/kg

Acute inhalation toxicity : LC50 Rat: > 1.22 mg/l
Exposure time: 1 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal Rabbit: 890 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:
o-cresol :

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 8.4 mg/l

Exposure time: 96 h
Test Method: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 9.5 mg/l
Exposure time: 48 h
Test Method: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 65 mg/l
Exposure time: 96 h
Test Type: flow-through test

Persistence and degradability

No data available

Bioaccumulative potential

Components:

phenol :

Partition coefficient: n-octanol/water : log Pow: 1.46

o-cresol :

Partition coefficient: n-octanol/water : log Pow: 1.95

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

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.
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

IATA-DGR

UN/ID No.	:	UN 2929
Proper shipping name	:	Toxic liquid, flammable, organic, n.o.s. (Magnesium Chromate, Toluene)
Class	:	6.1
Subsidiary risk	:	3
Packing group	:	II
Labels	:	Toxic, Flammable Liquids
Packing instruction (cargo aircraft)	:	662
Packing instruction (passenger aircraft)	:	654

IMDG-Code

UN number	:	UN 2929
Proper shipping name	:	TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. (Magnesium Chromate, Toluene)
Class	:	6.1
Subsidiary risk	:	3
Packing group	:	II
Labels	:	6.1 (3)
EmS Code	:	F-E, S-D
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 2929
Proper shipping name	:	Toxic liquids, flammable, organic, n.o.s. (Magnesium Chromate, Toluene)
Class	:	6.1
Subsidiary risk	:	3
Packing group	:	II
Labels	:	TOXIC, FLAMMABLE LIQUID
ERG Code	:	131
Marine pollutant	:	no

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
Carcinogenicity
Reproductive toxicity
Specific target organ toxicity (single or repeated exposure)
Acute toxicity (any route of exposure)
Germ cell mutagenicity
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:

Toluene	108-88-3
Chromic acid (H2CrO4), magnesium salt (1:1)	13423-61-5

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
Chromic acid (H2CrO4), magnesium salt (1:1)	13423-61-5

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

Toluene	108-88-3
Chromic acid (H2CrO4), magnesium salt (1:1)	13423-61-5
phenol	108-95-2
o-cresol	95-48-7

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

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 Department
EU-MSDS@hbfuller.com

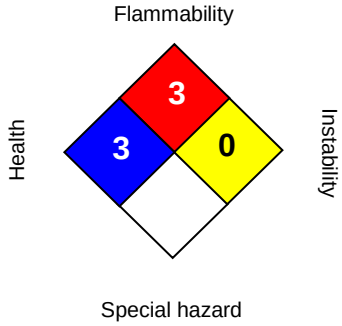
SAFETY DATA SHEET

WS-8070 B-2 Part B

Version 1.2 Revision Date 08/31/2023

Further information

NFPA:



HMIS III:

HEALTH	3*
FLAMMABILITY	3
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.
Penetrometer test according to ADR 2.3.4.3
Test result: solid (penetration after 5 s < 15 mm)

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