Formula M Premium Heavy Duty PreSpray



Revision date: 01/16/2020

SECTION 1: Identification

1.1 Product identifier

Trade name Formula M Premium Heavy Duty PreSpray

Other means of identification

Product code(s): 1109 Formula code: 01-120424

1.2 Relevant identified uses

Relevant identified uses General use

1.3 Details of the supplier of the safety data sheet

Master Blend Indiana LLC• 4345 W 96th St. • Indianapolis, IN 46268 • United States • Telephone: 800.525.9644• e-mail: info@masterblend.net • Website: masterblend.net

1.4 Emergency telephone number

Chem-Tel **1.800.255.3924** (USA & Canada) **1.813.248.0585** (International)

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Annex	 Hazard class and category 	-	Hazard statemen	t code(s)
A.2	skin corrosion/irritation	Cat. 2	(Skin Irrit. 2)	H315
A.3	serious eye damage/eye irritation	Cat. 2B	(Eye Irrit. 2B)	H320

Remarks

For full text of H-phrases: see SECTION 16.

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Signal word WARNING

Pictograms

GHS07



Hazard statements

H315+H320 Causes skin and eye irritation.

Precautionary statements

Precautionary statements - prevention

Wash thoroughly after handling.

Wear protective gloves/eye protection/face protection.

Precautionary statements - response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.



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2.3 Other hazards

This material is combustible, but will not ignite readily.

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

3.2.1

Name of substance	Identifier	Wt%
Sodium sulphate	CAS No 7757-82-6	50 - < 75
Triphosphoric acid, sodium salt	CAS No 7758-29-4	25 - < 50
Sodium carbonate peroxyhydrate	CAS No 15630-89-4	5 - < 15
Aqueous detergent	CAS No Trade Secret	5 - < 15
Dipropylene Glycol Monomethyl Ether	CAS No 34590-94-8	1 - < 5
Diphosphoric acid, sodium salt	CAS No 7722-88-5	1 - < 5
Sodium carbonate	CAS No 497-19-8	1 - < 5
Sodium 2-Mercaptobenzothiazole	CAS No 2492-26-4	< 1
Fragrance	CAS No Trade Secret	< 1
Sodium silicate SiO2/Na2O	CAS No 1344-09-8	< 1

For full text of abbreviations: see SECTION 16.

SECTION 4: First-aid measures

4.1 Description of firs- aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

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Following skin contact

Brush off loose particles from skin. - Rinse skin with water/shower.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

water, foam, alcohol resistant foam, ABC-powder

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Deposited combustible dust has considerable explosion potential.

Hazardous combustion products

nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains. - Take up mechanically.

Advices on how to clean up a spill

Take up mechanically.



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Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal precautions: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

Warning

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Advice on general occupational hygiene

Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

• Explosive atmospheres

Removal of dust deposits.

Incompatible substances or mixtures

Observe compatible storage of chemicals.

Consideration of other advice

Ventilation requirements

Use local and general ventilation.

Packaging compatibilities

Only packagings which are approved (e.g. acc. to DOT) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Coun- try	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Source
US	dipropylene glycol methyl ether	34590-94-8	PEL	100	600			29 CFR OSHA
US	particulates not otherwise regulated (PNOR)		PEL	1,766	15			29 CFR OSHA
US	particulates not otherwise regulated (PNOR)		PEL	529.5	5			29 CFR OSHA

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notation

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period

unless otherwise specified.

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-

weighted average.

Relevant DNELs/DMELs/PNECs and other threshold levels

No data available.

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

hand protection

Wear protective gloves.

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

Particulate filter device (EN 143).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state solid (powder)

Color different

Odor Orange Citrus Aroma

Other physical and chemical parameters

pH (value) 9.3

Melting point/freezing point not determined

Initial boiling point and boiling range 189.6 °C

Flash point 75 °C at 1,013 hPa

Evaporation rate not determined

Flammability (solid, gas)

Vapor pressure 0.28 mmHg at 20 °C

Density not determined
Relative density not determined
Solubility(ies) not determined

Auto-ignition temperature 207 °C

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Viscosity not relevant (solid matter)

Explosive properties none
Oxidizing properties none

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

Hints to prevent fire or explosion

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Physical stresses which might result in a hazardous situation and have to be avoided strong shocks

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE)

inhalation: dust/mist 4.356

Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	ATE
sodium sulphate	7757-82-6	inhalation: dust/mist	>2.4
triphosphoric acid, sodium salt	7758-29-4	inhalation: dust/mist	>0.39
sodium carbonate peroxyhydrate	15630-89-4	oral	1,034
diphosphoric acid, sodium salt	7722-88-5	oral	<2,000

United States
MB 000187 SDS-01



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Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes eye irritation.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Carcinogenicity

National Toxicology Program (United States):
 none of the ingredients are listed

• IARC Monographs none of the ingredients are listed

Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
sodium sulphate	7757-82-6	LC50	7,960 ^{mg} / _l	fish	96 hours
triphosphoric acid, sodi- um salt	7758-29-4	EC50	>100 ^{mg} / _I	aquatic inverteb- rates	48 hours
sodium carbonate per- oxyhydrate	15630-89-4	LC50	70.7 ^{mg} / _l	fish	48 hours
sodium carbonate per- oxyhydrate	15630-89-4	EC50	4.9 ^{mg} / _l	aquatic inverteb- rates	48 hours
Dipropylene Glycol Monomethyl Ether	34590-94-8	LC50	>1,000 ^{mg} / _I	fish	96 hours
Dipropylene Glycol Monomethyl Ether	34590-94-8	ErC50	>969 ^{mg} / _I	algae	72 hours
Dipropylene Glycol Monomethyl Ether	34590-94-8	EC50	>969 ^{mg} / _I	algae	72 hours
sodium carbonate	497-19-8	LC50	300 ^{mg} / _l	fish	96 hours
sodium carbonate	497-19-8	EC50	227 ^{mg} / _l	aquatic inverteb- rates	48 hours
sodium silicate SiO2/Na2O	1344-09-8	LC50	1,108 ^{mg} / _l	fish	96 hours
sodium silicate SiO2/Na2O	1344-09-8	EC50	1,700 ^{mg} / _l	aquatic inverteb- rates	48 hours
sodium silicate SiO2/Na2O	1344-09-8	ErC50	>345.4 ^{mg} / _I	algae	72 hours



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Aquatic toxicity (chronic)

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
sodium sulphate	7757-82-6	LC50	>8,080 ^{mg} / _I	fish	24 h
sodium sulphate	7757-82-6	EC50	1,698 ^{mg} / _I	aquatic inverteb- rates	7 d
triphosphoric acid, sodi- um salt	7758-29-4	LC50	>1,850 ^{mg} / _I	fish	24 h
triphosphoric acid, sodi- um salt	7758-29-4	ErC50	160 ^{mg} / _l	algae	4 d
triphosphoric acid, sodi- um salt	7758-29-4	EC50	69.2 ^{mg} / _l	algae	4 d
Dipropylene Glycol Monomethyl Ether	34590-94-8	LC50	>1,000 ^{mg} / _I	aquatic inverteb- rates	24 h
sodium carbonate	497-19-8	LC50	385 ^{mg} / _l	fish	24 h
sodium carbonate	497-19-8	EC50	403 ^{mg} / _l	aquatic inverteb- rates	24 h
Sodium 2-Mercaptoben- zothiazole	2492-26-4	EC50	857 ^{mg} / _l	microorganisms	3 h

12.2 Persistence and degradability

Data are not available.

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
Dipropylene Glycol Monomethyl Ether	34590-94-8	oxygen depletion	75 %	10 d
Dipropylene Glycol Monomethyl Ether	34590-94-8	DOC removal	96 %	28 d
Dipropylene Glycol Monomethyl Ether	34590-94-8	carbon dioxide genera- tion	76 %	28 d

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
sodium sulphate	7757-82-6	0.5	-4.38	
Dipropylene Glycol Monomethyl Ether	34590-94-8		0.0043	
Sodium 2-Mercaptoben- zothiazole	2492-26-4		2.42	

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12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number

14.2 UN proper shipping name not relevant

14.3 Transport hazard class(es)

Class

14.4 Packing group not relevant

14.5 Environmental hazards none (non-environmentally hazardous acc. to the dangerous

goods regulations)

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System (American Coatings Association)



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Category	Rating	Description
Chronic	/	None.
Health	2	Temporary or minor injury may occur.
Flammability	2	Material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
Physical hazard	1	Material that is normally stable but can become unstable (self-react) at high temperatures and pressures. Material may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.
Personal protective equipment	-	

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States)

Category	Degree of hazard	Description
Flammability	2	Material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
Health	2	Material that, under emergency conditions, can cause temporary incapacitation or residual injury.
Instability	0	Material that is normally stable, even under fire conditions.
Special hazard	OX	Oxidizer that causes a moderate increase in the burning rate of combustible materials with which it comes into contact.

Relevant European Union (EU) safety, health and environmental provisions

Classification according to GHS (1272/2008/EC, CLP)

Hazard class Category Hazard class and category

skin corrosion/irritation 2 (Skin Irrit. 2) serious eye damage/eye irritation 2 (Eye Irrit. 2)

hazardous to the aquatic environment - chronic hazard 3 (Aquatic Chronic 3)

SECTION 16: Other information, including date of preparation or last revision

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR OSHA	29 CFR §1910.1001 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
ATE	Acute Toxicity Estimate
BCF	BioConcentration Factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
COD	chemical oxygen demand
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level

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Abbr.	Descriptions of used abbreviations
DOT	Department of Transportation (USA)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
HMIS	Hazardous Materials Identification System
IARC Mono- graphs	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans
log KOW	n-octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant)
NFPA® 704	National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States)
NPCA-HMIS®	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	permissible exposure limit
PNEC	Predicted No-Effect Concentration
ppm	parts per million
STEL	short-term exposure limit
TWA	time-weighted average
vPvB	very Persistent and very Bioaccumulative

Key literature references and sources for data

- OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200
- 49 CFR § 172.101 Hazardous Materials Table (DOT)

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards/Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H315	causes skin irritation
H320	causes eye irritation

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.