

MOTOR MEDIC® 5 MINUTE MOTOR FLUSH

Version Revision Date: SDS Number: Date of last issue: 03/21/2019 600000001487 Date of first issue: 07/09/2018

SECTION 1. IDENTIFICATION

Product name : MM 5 MIN MOTOR FLUSH 12/32OZ PLASTIC

Product code : MF3

Manufacturer or supplier's details

Company name of supplier : Niteo Products, LLC

Address : Dallas TX 75225

Email Address : EHS@niteoproducts.com

Telephone : 1-844-696-4836

Emergency telephone num-

ber

1-800-424-9300 / 1-703-741-5970

Recommended use of the chemical and restrictions on use

Recommended use : FUEL INJ CLEANER

Restrictions on use : Use only outdoors or in a well-ventilated area.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Flammable liquids : Category 3

Acute toxicity (Inhalation) : Category 4

Skin irritation : Category 2

Carcinogenicity : Category 2

Specific target organ toxicity

- single exposure

Category 3 (Central nervous system)

Specific target organ toxicity

- repeated exposure

Category 2 (Liver, thymus, Bone marrow)

Aspiration hazard : Category 1

GHS label elements

Hazard pictograms :









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Signal word : Danger

Hazard statements : Flammable liquid and vapour.

May be fatal if swallowed and enters airways.

Causes skin irritation. Harmful if inhaled.

May cause drowsiness or dizziness. Suspected of causing cancer.

May cause damage to organs (Liver, thymus, Bone marrow)

through prolonged or repeated exposure.

Precautionary statements

Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and

understood.

Keep away from heat/sparks/open flames/hot surfaces. No

smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ ventilating/ lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/ protective clothing/ eye protection/ face

protection.

Response:

IF SWALLOWED: Immediately call a POISON CENTER/doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF exposed or concerned: Get medical advice/ attention.

Do NOT induce vomiting.

If skin irritation occurs: Get medical advice/ attention.

Take off contaminated clothing and wash before reuse.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool.

Store locked up.

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



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Substance / Mixture Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Diesel fuel no. 2	68476-34-6	>= 70 - < 90
Kerosene	8008-20-6	>= 30 - < 50
Distillates (petroleum)	64742-53-6	>= 5 - < 10
Distillates (petroleum)	64742-52-5	>= 5 - < 10
Alkanes, C10-C20 branched and linear	928771-01-1	>= 1 - < 5
Naphthalene	91-20-3	>= 1 - < 5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

Move out of dangerous area. General advice

Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later.

Do not leave the victim unattended.

If inhaled Move to fresh air.

IF INHALED: Call a POISON CENTER/ doctor if you feel un-

well.

If unconscious, place in recovery position and seek medical

advice.

Keep patient warm and at rest. If symptoms persist, call a physician.

In case of skin contact If on clothes, remove clothes.

Remove contaminated clothing. If irritation develops, get med-

ical attention.

If on skin, rinse well with water.

Wash contaminated clothing before re-use. If skin irritation persists, call a physician.

Flush eyes with water as a precaution. In case of eye contact

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If swallowed Obtain medical attention.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

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. Harmful if inhaled.

May cause drowsiness or dizziness.

Suspected of causing cancer.

May cause damage to organs through prolonged or repeated

exposure.



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SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray

Carbon dioxide (CO2)

Dry chemical

Alcohol-resistant foam

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire-

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod: :

ucts

Carbon oxides

Specific extinguishing meth-

ods

Product is compatible with standard fire-fighting agents.

Further information : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations. Use a water spray to cool fully closed containers.

Special protective equipment:

for firefighters

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

Use personal protective equipment. Remove all sources of ignition.

Ensure adequate ventilation.

Avoid breathing dust.

Beware of vapours accumulating to form explosive concentra-

tions. Vapours can accumulate in low areas.

Evacuate personnel to safe areas.

Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Prevent product from entering drains.

Do not flush into surface water or sanitary sewer system.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local

/ national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on protection against : Take necessary action to avoid static electricity discharge



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fire and explosion (which might cause ignition of organic vapours).

Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protec-

tion Association document NFPA 77.

Keep away from open flames, hot surfaces and sources of

ignition.

Use only explosion-proof equipment.

Do not spray on a naked flame or any incandescent material.

Advice on safe handling : Open drum carefully as content may be under pressure.

Avoid formation of aerosol.

Provide sufficient air exchange and/or exhaust in work rooms.

Do not breathe vapours/dust.

Do not smoke.

Take precautionary measures against static discharges.

Avoid contact with skin and eyes.

Dispose of rinse water in accordance with local and national

regulations.

Container hazardous when empty.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

For personal protection see section 8.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

No smoking.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
		exposure)	concentration	
Contains no substances with occupational exposure limit values.				
Diesel fuel no. 2	68476-34-6	TWA (Inhal-	100 mg/m3	ACGIH
		able fraction	(total hydrocar-	
		and vapor)	bons)	
Kerosene	8008-20-6	TWA	100 mg/m3	NIOSH REL
		TWA	500 ppm	OSHA Z-1
			2,000 mg/m3	
		TWA	200 mg/m3	ACGIH
			(total hydrocarbon	
			vapor)	
		TWA	400 ppm	OSHA P0
			1,600 mg/m3	



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Distillates (petroleum)	64742-53-6	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal-	5 mg/m3	ACGIH
		able fraction)		
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
Distillates (petroleum)	64742-52-5	TWA (Mist)	5 mg/m3	OSHA Z-1
, ,		TWA (Inhal-	5 mg/m3	ACGIH
		able fraction)		
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
Naphthalene	91-20-3	TWA	10 ppm	ACGIH
		TWA	10 ppm	NIOSH REL
			50 mg/m3	
		ST	15 ppm	NIOSH REL
			75 mg/m3	
		TWA	10 ppm	OSHA Z-1
			50 mg/m3	
		TWA	10 ppm	OSHA P0
			50 mg/m3	
		STEL	15 ppm	OSHA P0
			75 mg/m3	

Hazardous components without workplace control parameters

Components	CAS-No.
Hydrotreated heavy naphtha	64742-48-9

Alkanes, C10-C20 branched	928771-01-1
and linear	

Engineering measures : Provide sufficient mechanical (general and/or local ex-

haust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an ap-

proved filter.

Hand protection

Remarks : Wear resistant gloves (consult your safety equipment suppli-

er). The suitability for a specific workplace should be discussed with the producers of the protective gloves. Discard

gloves that show tears, pinholes, or signs of wear.

Eye protection : Not required under normal conditions of use. Wear splash-

proof safety goggles if material could be misted or splashed

into eyes.

Skin and body protection : Choose body protection according to the amount and con-

centration of the dangerous substance at the work place.

Wear as appropriate:



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Impervious clothing Flame-resistant clothing

Safety shoes

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

When using do not smoke. When using do not eat or drink.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : red

Odour : characteristic

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : 154 - 366 °C

The value is calculated

Flash point : 58 °C

Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Self-ignition : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : No data available

Relative vapour density : No data available

Density : 0.8450 g/cm3

Solubility(ies)

Water solubility : No data available

Partition coefficient: n-

octanol/water

: No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available



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Viscosity, kinematic : No data available

Oxidizing properties : No data available

Molecular weight : No data available

VOC % By Weight : 89.9 %

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reac-

tions

No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Eye contact Ingestion

Acute toxicity

Harmful if inhaled.

Product:

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

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 4.01 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Components:

Diesel fuel no. 2:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): 4.1 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403



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Acute dermal toxicity : LD50 (Rabbit): > 4,300 mg/kg

Assessment: No adverse effect has been observed in acute

dermal toxicity tests.

Kerosene:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 420

Acute inhalation toxicity : LC50 (Rat): > 5.8 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

Assessment: No adverse effect has been observed in acute

inhalation toxicity tests.

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

Method: OECD Test Guideline 402

Assessment: No adverse effect has been observed in acute

dermal toxicity tests.

Distillates (petroleum):

Acute oral toxicity : LD50 (Rat): > 5 g/kg

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

Assessment: No adverse effect has been observed in acute

dermal toxicity tests.

Distillates (petroleum):

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

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

Assessment: No adverse effect has been observed in acute

dermal toxicity tests.

Alkanes, C10-C20 branched and linear:

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after

short term inhalation.

Naphthalene:

Acute oral toxicity : LD50 (Mouse, male): 533 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 0.4 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Assessment: No adverse effect has been observed in acute

inhalation toxicity tests.

Acute dermal toxicity : LD50 (Rat, male and female): > 2,500 mg/kg

Assessment: No adverse effect has been observed in acute

dermal toxicity tests.



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Skin corrosion/irritation

Causes skin irritation.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

Remarks: May cause skin irritation and/or dermatitis.

Components:

Diesel fuel no. 2:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Irritating to skin.

Kerosene:

Result: Irritating to skin.

Distillates (petroleum):

Assessment: No skin irritation Result: No skin irritation

Naphthalene:

Result: Possibly irritating to skin

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

Components:

Diesel fuel no. 2:

Species: Rabbit

Result: Possibly irritating to eyes Method: OECD Test Guideline 405

Kerosene:

Result: Possibly irritating to eyes

Distillates (petroleum):

Result: Possibly irritating to eyes

Naphthalene:

Result: Possibly irritating to eyes



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Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Diesel fuel no. 2:

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 406

Germ cell mutagenicity

Not classified based on available information.

Components:

Diesel fuel no. 2:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation Method: Mutagenicity (Salmonella typhimurium - reverse mu-

tation assay)
Result: positive

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Species: Mouse Result: negative

Carcinogenicity

Suspected of causing cancer.

Components:

Diesel fuel no. 2:

Carcinogenicity - Assess-

ment

: Limited evidence of carcinogenicity in animal studies

Naphthalene:

Carcinogenicity - Assess-

ment

Limited evidence of carcinogenicity in inhalation studies with

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

Group 2B: Possibly carcinogenic to humans

Naphthalene 91-20-3

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.



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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 component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

Reasonably anticipated to be a human carcinogen

Naphthalene 91-20-3

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause drowsiness or dizziness.

Components:

Kerosene:

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

May cause damage to organs (Liver, thymus, Bone marrow) through prolonged or repeated exposure.

Components:

Diesel fuel no. 2:

Target Organs: Liver

Assessment: May cause damage to organs through prolonged or repeated exposure.

Target Organs: thymus

Assessment: May cause damage to organs through prolonged or repeated exposure.

Target Organs: Bone marrow

Assessment: May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

May be fatal if swallowed and enters airways.

Components:

Diesel fuel no. 2:

May be fatal if swallowed and enters airways.

Kerosene:

May be fatal if swallowed and enters airways.

Distillates (petroleum):

May be fatal if swallowed and enters airways.



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Distillates (petroleum):

May be fatal if swallowed and enters airways.

Alkanes, C10-C20 branched and linear:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Additional ecological

information

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

Dangerous goods descriptions (if indicated below) may not reflect quantity, end-use, or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

International Regulations

IATA-DGR

UN/ID No. : UN 1268

Proper shipping name : Petroleum distillates, n.o.s.

Class : 3
Packing group : III
Labels : 3
Packing instruction (cargo : 366

aircraft)

Packing instruction : 355

(passenger aircraft)

IMDG-Code

UN number : UN 1268

Proper shipping name : PETROLEUM DISTILLATES, N.O.S.



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Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-E
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

49 CFR

UN/ID/NA number : UN 1268

Proper shipping name : Petroleum distillates, n.o.s.

Class : 3
Packing group : III
Labels : 3
ERG Code : 128
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Naphthalene	91-20-3	100	4280
Benzene	71-43-2	10	10 (D018)

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

SARA 313 : The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

Naphthalene 91-20-3 >= 1 - < 5 %

California Prop. 65

WARNING: This product can expose you to chemicals including Naphthalene, Benzene, 1,4-Dioxane, which is/are known to the State of California to cause cancer, and Benzene, which



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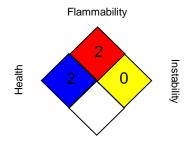
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is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

Further information

NFPA:



Special hazard.

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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