

184152

# SAFETY DATA SHEET



## MOTOR MEDIC® THRUST™ STARTING FLUID

Version 2.0      Revision Date: 10/16/2019      SDS Number: 600000000538      Date of last issue: 02/05/2019  
Date of first issue: 02/05/2019

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : MM THRUST STARTING FLUID 12/11OZ AERO

Product code : M3815

#### 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 number : 1-800-424-9300 / 1-703-741-5970

#### Recommended use of the chemical and restrictions on use

Recommended use : STARTING FLUID

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

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Aerosols : Category 1

Acute toxicity (Oral) : Category 5

Skin irritation : Category 2

Eye irritation : Category 2A

Carcinogenicity : Category 2

Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

Aspiration hazard : Category 1

#### GHS label elements

Hazard pictograms :



Signal word : Danger

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Hazard statements : H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H303 May be harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing cancer.

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, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
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 or doctor/ physician.  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician 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.  
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.  
P331 Do NOT induce vomiting.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

**Storage:**  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

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

**Other hazards**  
None known.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Heptane, branched, cyclic and linear	426260-76-6	>= 70 -< 90
Ethyl ether	60-29-7	>= 10 -< 20
n-Heptane	142-82-5	>= 1 -< 5
Carbon dioxide	124-38-9	>= 1 -< 5
Ethanol	64-17-5	>= 1 -< 5
Chloroethane	75-00-3	>= 0.1 -< 1

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

### SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
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.  
Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If on clothes, remove clothes.  
Remove contaminated clothing. If irritation develops, get medical attention.  
If on skin, rinse well with water.  
Wash contaminated clothing before re-use.  
If skin irritation persists, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- 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 harmful if swallowed.  
May be fatal if swallowed and enters airways.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.  
Suspected of causing cancer.

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### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray  
Carbon dioxide (CO<sub>2</sub>)  
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 products : Carbon oxides
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances 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.  
  
Product is compatible with standard fire-fighting agents.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Remove all sources of ignition.  
Ensure adequate ventilation.  
Avoid breathing dust.  
Beware of vapours accumulating to form explosive concentrations. 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.
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### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).  
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.

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- Advice on safe handling : Open drum carefully as content may be under pressure. 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 application area. For personal protection see section 8.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not smoke. When using do not eat or drink.
- Conditions for safe storage : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. 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 storage 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 exposure)	Control parameters / Permissible concentration	Basis
Ethyl ether	60-29-7	VLE-PPT	400 ppm	NOM-010-STPS-2014
		VLE-CT	500 ppm	NOM-010-STPS-2014
n-Heptane	142-82-5	VLE-PPT	400 ppm	NOM-010-STPS-2014
		VLE-CT	500 ppm	NOM-010-STPS-2014
Carbon dioxide	124-38-9	VLE-PPT	5,000 ppm	NOM-010-STPS-2014
		VLE-CT	30,000 ppm	NOM-010-STPS-2014
Ethanol	64-17-5	VLE-CT	1,000 ppm	NOM-010-STPS-2014
Chloroethane	75-00-3	VLE-PPT	100 ppm	NOM-010-STPS-2014

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**Engineering measures** : Provide sufficient mechanical (general and/or local exhaust) 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 approved filter.  
In the case of dust or aerosol formation use respirator with an approved filter.

**Hand protection**

**Remarks** : Wear resistant gloves (consult your safety equipment supplier). 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** : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

**Skin and body protection** : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Wear as appropriate:  
Impervious clothing  
Flame-resistant clothing  
Safety shoes

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : aerosol

**Colour** : not determined

**Odour** : No data available

**Odour Threshold** : No data available

**pH** : No data available

**Melting point/freezing point** : No data available

**Boiling point/boiling range** : 34,6 °C  
(1,013 hPa)  
The value is calculated

**Flash point** : -45 °C  
The value is calculated

**Evaporation rate** : No data available

**Flammability (solid, gas)** : No data available

**Self-ignition** : No data available

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Upper explosion limit / Upper flammability limit	:	36.5 %(V) The value is calculated
Lower explosion limit / Lower flammability limit	:	1.05 %(V) The value is calculated
Vapour pressure	:	717.26 hPa (25 °C) The value is calculated
Relative vapour density	:	No data available
Density	:	0.7114 g/cm <sup>3</sup> (15.56 °C)
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Oxidizing properties	:	No data available
Molecular weight	:	No data available
VOC % By Weight	:	99.5 %

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### 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 reactions	:	No decomposition if stored and applied as directed. Vapours may form explosive mixture with air.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Acids Alkali metals Ammonia Bases halogens Oxidizing agents Sulphur compounds
Hazardous decomposition products	:	Carbon oxides
Hazardous decomposition products	:	

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation  
Skin contact  
Eye contact

#### Acute toxicity

May be harmful if swallowed.

#### Product:

Acute oral toxicity : Acute toxicity estimate: 2,554 mg/kg  
Method: Calculation method

#### Components:

##### Ethyl ether:

Acute oral toxicity : LD50 (Rat): 1,200 - 1,700 mg/kg

##### n-Heptane:

Acute oral toxicity : LD50 (Rat): Expected > 5,000 mg/kg  
Remarks: Information given is based on data obtained from similar substances.

Acute inhalation toxicity : LC50 (Rat, male and female): > 29.29 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): Expected > 2,000 mg/kg  
Assessment: No adverse effect has been observed in acute dermal toxicity tests.  
Remarks: Information given is based on data obtained from similar substances.

##### Ethanol:

Acute oral toxicity : LD50 (Rat): 7,060 mg/kg

Acute inhalation toxicity : LC50 (Rat): 117 - 125 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LDLo (Rabbit): 20 g/kg

##### Chloroethane:

Acute inhalation toxicity : LC50 (Rat): > 19000 ppm  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403



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### **Skin corrosion/irritation**

Causes skin irritation.

### **Product:**

Remarks: May cause skin irritation and/or dermatitis.

### **Components:**

#### **Heptane, branched, cyclic and linear:**

Result: Irritating to skin.

#### **Ethyl ether:**

Result: Irritating to skin.

#### **n-Heptane:**

Result: Irritating to skin.

#### **Carbon dioxide:**

Assessment: No skin irritation

Result: No skin irritation

#### **Ethanol:**

Result: Possibly irritating to skin

#### **Chloroethane:**

Result: Possibly irritating to skin

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

### **Product:**

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

### **Components:**

#### **Heptane, branched, cyclic and linear:**

Result: Possibly irritating to eyes

#### **Ethyl ether:**

Result: Irritating to eyes.

#### **n-Heptane:**

Result: Possibly irritating to eyes

#### **Carbon dioxide:**

Result: No eye irritation

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**Ethanol:**

Result: Irritating to eyes.

**Chloroethane:**

Result: Possibly irritating to eyes

**Respiratory or skin sensitisation**

**Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Components:**

**Heptane, branched, cyclic and linear:**

Result: Substance is not considered to be potential skin sensitiser.

**n-Heptane:**

Test Type: Maximisation Test

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

Remarks: Information given is based on data obtained from similar substances.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**n-Heptane:**

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

**Carcinogenicity**

Suspected of causing cancer.

**Components:**

**Chloroethane:**

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

May cause drowsiness or dizziness.

**Components:**

**Heptane, branched, cyclic and linear:**

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

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**Ethyl ether:**

Assessment: May cause drowsiness or dizziness.

**n-Heptane:**

Assessment: May cause drowsiness or dizziness.

**Ethanol:**

Assessment: May cause drowsiness or dizziness.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

May be fatal if swallowed and enters airways.

**Components:**

**Heptane, branched, cyclic and linear:**

May be fatal if swallowed and enters airways.

**n-Heptane:**

May be fatal if swallowed and enters airways.

**Further information**

**Product:**

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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### SECTION 12. ECOLOGICAL INFORMATION

**Toxicity**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

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### 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.

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### 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 1950  
Proper shipping name : Aerosols, flammable  
Class : 2.1  
Packing group : Not assigned by regulation  
Labels : 2.1  
Packing instruction (cargo aircraft) : 203  
Packing instruction (passenger aircraft) : 203

##### IMDG-Code

UN number : UN 1950  
Proper shipping name : AEROSOLS  
Class : 2.1  
Packing group : Not assigned by regulation  
Labels : 2.1  
EmS Code : F-D, S-U  
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

##### NOM-002-SCT

UN number : UN 1950  
Proper shipping name : AEROSOLS  
Class : 2.1  
Packing group : Not assigned by regulation  
Labels : 2.1

#### Special precautions for user

Not applicable

### SECTION 15. REGULATORY INFORMATION

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

NOM-165-SEMARNAT-2013, Norm establishing a list of substances subject to report for the Registry of Emissions and Pollutant Transfer

Components	CAS-No.	MPU (kg/year)	Transfer/Release (kg/year)
Carbon dioxide	124-38-9		100000 kg/year

MPU: Applicable reporting threshold when the substance, pure or in mixture in a composition of more than 1% by weight, is used for industrial activities at facilities that are subject to report or are produced by them

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Federal Law for the control of chemical precursors, : Ethyl ether  
essential chemical products and machinery for produc-  
ing capsules, tablets and pills.

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### SECTION 16. OTHER INFORMATION

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The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

MX / EN