

SAFETY DATA SHEET



MOTOR MEDIC® THRUST™ STARTING FLUID

Version	Revision Date:	SDS Number:	Date of last issue: 02/05/2019
1.1	02/05/2019	600000000538	Date of first issue: 02/05/2019

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.

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

Reproductive toxicity : Category 2

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

Aspiration hazard : Category 1

GHS label elements

MOTOR MEDIC® THRUST™ STARTING FLUID

Version 1.1 Revision Date: 02/05/2019 SDS Number: 600000000538 Date of last issue: 02/05/2019
Date of first issue: 02/05/2019

Hazard pictograms

:



Signal word

: Danger

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.
H361 Suspected of damaging fertility or the unborn child.

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.

MOTOR MEDIC® THRUST™ STARTING FLUID

Version 1.1 Revision Date: 02/05/2019 SDS Number: 600000000538 Date of last issue: 02/05/2019
 Date of first issue: 02/05/2019

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Solvent naphtha (petroleum)	64742-89-8	>= 70 -< 90
Ethyl ether	60-29-7	>= 10 -< 20
Carbon dioxide	124-38-9	>= 1 -< 5
n-Heptane	142-82-5	>= 1 -< 5
Ethanol	64-17-5	>= 1 -< 5
Chloroethane	75-00-3	>= 0.1 -< 1
Toluene	108-88-3	>= 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.

MOTOR MEDIC® THRUST™ STARTING FLUID

Version 1.1	Revision Date: 02/05/2019	SDS Number: 600000000538	Date of last issue: 02/05/2019 Date of first issue: 02/05/2019
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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.
 Suspected of damaging fertility or the unborn child.

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 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.

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.

MOTOR MEDIC® THRUST™ STARTING FLUID

Version 1.1 Revision Date: 02/05/2019 SDS Number: 600000000538 Date of last issue: 02/05/2019
 Date of first issue: 02/05/2019

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.
- 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
		TWA	400 ppm	ACGIH
		STEL	500 ppm	ACGIH
Carbon dioxide	124-38-9	VLE-PPT	5,000 ppm	NOM-010-

SAFETY DATA SHEET



MOTOR MEDIC® THRUST™ STARTING FLUID

Version 1.1 Revision Date: 02/05/2019 SDS Number: 600000000538 Date of last issue: 02/05/2019
 Date of first issue: 02/05/2019

		VLE-CT	30,000 ppm	STPS-2014
		TWA	5,000 ppm	NOM-010-STPS-2014
		STEL	30,000 ppm	ACGIH
n-Heptane	142-82-5	VLE-PPT	400 ppm	ACGIH
		VLE-CT	500 ppm	NOM-010-STPS-2014
		TWA	400 ppm	NOM-010-STPS-2014
		STEL	500 ppm	ACGIH
Ethanol	64-17-5	VLE-CT	1,000 ppm	ACGIH
		STEL	1,000 ppm	NOM-010-STPS-2014
Chloroethane	75-00-3	VLE-PPT	100 ppm	ACGIH
		TWA	100 ppm	NOM-010-STPS-2014
Toluene	108-88-3	VLE-PPT	20 ppm	ACGIH
		TWA	20 ppm	NOM-010-STPS-2014

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam-pling time	Permissible concentra-tion	Basis
Toluene	108-88-3	o-Cresol	Urine	End of shift	0.5 mg/l	MX BEI
		hippuric acid	Urine	End of shift	1.6 g/g cre-atinine	MX BEI
		Toluene	Blood	Prior to the last shift of the work week	0.05 mg/l	MX BEI
		Toluene	In blood	Prior to last shift of work-week	0.02 mg/l	ACGIH BEI
		Toluene	Urine	End of shift (As soon as possible after exposure ceases)	0.03 mg/l	ACGIH BEI
		o-Cresol	Urine	End of shift (As soon as possible after exposure ceases)	0.3 mg/g Creatinine	ACGIH BEI

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

MOTOR MEDIC® THRUST™ STARTING FLUID

Version	Revision Date:	SDS Number:	Date of last issue: 02/05/2019
1.1	02/05/2019	600000000538	Date of first issue: 02/05/2019

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

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
Upper explosion limit / Upper flammability limit	:	36.5 %(V) The value is calculated

SAFETY DATA SHEET



MOTOR MEDIC® THRUST™ STARTING FLUID

Version 1.1 Revision Date: 02/05/2019 SDS Number: 600000000538 Date of last issue: 02/05/2019
Date of first issue: 02/05/2019

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/cm³ (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 %

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

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation
Skin contact
Eye contact

MOTOR MEDIC® THRUST™ STARTING FLUID

Version 1.1 Revision Date: 02/05/2019 SDS Number: 600000000538 Date of last issue: 02/05/2019
Date of first issue: 02/05/2019

Acute toxicity

May be harmful if swallowed.

Product:

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

Components:**Solvent naphtha (petroleum):**

Acute oral toxicity : LD50 (Rat): > 8,000 mg/kg

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

Toluene:

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

Acute inhalation toxicity : LC50 (Rat, males): 25.7 mg/l

MOTOR MEDIC® THRUST™ STARTING FLUID

Version	Revision Date:	SDS Number:	Date of last issue: 02/05/2019
1.1	02/05/2019	600000000538	Date of first issue: 02/05/2019

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 12,124 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Components:

Solvent naphtha (petroleum):

Result: Possibly irritating to skin

Ethyl ether:

Result: Irritating to skin.

Carbon dioxide:

Assessment: No skin irritation
Result: No skin irritation

n-Heptane:

Result: Irritating to skin.

Ethanol:

Result: Possibly irritating to skin

Chloroethane:

Result: Possibly irritating to skin

Toluene:

Result: 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:

Solvent naphtha (petroleum):

Result: Possibly irritating to eyes

Ethyl ether:

Result: Irritating to eyes.

MOTOR MEDIC® THRUST™ STARTING FLUID

Version	Revision Date:	SDS Number:	Date of last issue: 02/05/2019
1.1	02/05/2019	600000000538	Date of first issue: 02/05/2019

Carbon dioxide:

Result: No eye irritation

n-Heptane:

Result: Possibly irritating to eyes

Ethanol:

Result: Irritating to eyes.

Chloroethane:

Result: Possibly irritating to eyes

Toluene:

Result: Irritating to eyes.

Respiratory or skin sensitisation**Skin sensitisation**

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:**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

Suspected of damaging fertility or the unborn child.

SAFETY DATA SHEET



MOTOR MEDIC® THRUST™ STARTING FLUID

Version 1.1 Revision Date: 02/05/2019 SDS Number: 600000000538 Date of last issue: 02/05/2019
Date of first issue: 02/05/2019

Components:

Toluene:

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

STOT - single exposure

May cause drowsiness or dizziness.

Components:

Ethyl ether:

Assessment: May cause drowsiness or dizziness.

n-Heptane:

Assessment: May cause drowsiness or dizziness.

Ethanol:

Assessment: May cause drowsiness or dizziness.

Toluene:

Exposure routes: Inhalation
Target Organs: Central nervous system
Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Components:

Toluene:

Exposure routes: Inhalation
Target Organs: Neurologic: other (neuropsychological effects, auditory dysfunction and effects on color vision)
Assessment: May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

May be fatal if swallowed and enters airways.

Components:

Solvent naphtha (petroleum):

May be fatal if swallowed and enters airways.

n-Heptane:

May be fatal if swallowed and enters airways.

Toluene:

May be fatal if swallowed and enters airways.

MOTOR MEDIC® THRUST™ STARTING FLUID

Version	Revision Date:	SDS Number:	Date of last issue: 02/05/2019
1.1	02/05/2019	600000000538	Date of first issue: 02/05/2019

Further information
Product:

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

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 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

SAFETY DATA SHEET



MOTOR MEDIC® THRUST™ STARTING FLUID

Version	Revision Date:	SDS Number:	Date of last issue: 02/05/2019
1.1	02/05/2019	600000000538	Date of first issue: 02/05/2019

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

Federal Law for the control of chemical precursors, essential chemical products and machinery for producing capsules, tablets and pills.	:	Ethyl ether Toluene
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SECTION 16. OTHER INFORMATION

Revision Date : 02/05/2019

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.

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