



Version 5.0	Revision Date: 02/22/2019		DS Number: 00000001461	Date of last issue: 10/26/2018 Date of first issue: 07/03/2018	
SECTIO	N 1. IDENTIFICATION				
Proc	duct name	:	MM LEAD SUBS	TITUTE 12/12 OZ	
Product code		:	M5012		
Mar	nufacturer or supplier's	deta	ails		
Con	npany name of supplier	:	Niteo Products, L	LC	
Add	ress	:	Dallas TX 75225		
Email Address		:	EHS@niteoproducts.com		
Tele	phone	:	1-844-696-4836		
Eme ber	ergency telephone num-	:	1-800-424-9300 /	1-703-741-5970	
Rec	ommended use of the c	hen	nical and restriction	ons on use	
Rec	ommended use	:	Fuels and fuel ad	ditives	
Res	trictions on use	:	Use only outdoor	s 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 3
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	
Hazaro	d statements	May be fatal if Causes skin ir Toxic if inhale May cause dro Suspected of May cause da	
Precau	utionary statements	Prevention:	
		Do not handle understood. Keep away fro smoking. Keep containe Ground/bond o Use explosion Use only non- Take precautio Do not breathe Wash skin tho Use only outdo	instructions before use. until all safety precautions have been read and m heat/sparks/open flames/hot surfaces. No r tightly closed. container and receiving equipment. -proof electrical/ ventilating/ lighting equipment. sparking tools. onary measures against static discharge. e dust/ fume/ gas/ mist/ vapours/ spray. roughly after handling. pors or in a well-ventilated area. re gloves/ protective clothing/ eye protection/ face
		Response:	
		IF ON SKIN (c clothing. Rinse IF INHALED: I for breathing. IF exposed or Do NOT induc If skin irritation Take off conta	occurs: Get medical advice/ attention. minated clothing and wash before reuse. Use dry sand, dry chemical or alcohol-resistant
		Storage:	
			-ventilated place. Keep container tightly closed. -ventilated place. Keep cool. p.
		Disposal:	
		Dispose of cor plant.	ntents/ container to an approved waste disposal

Other hazards

None known.



Substance / Mixture : Mixture

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Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Diesel fuel no. 2	68476-34-6	>= 50 - < 100
Kerosene	8008-20-6	>= 0 - < 50
Petroleum Naphtha	64742-94-5	>= 5 - < 10
Alkanes, C10-C20 branched and linear	928771-01-1	>= 1 - < 5
Naphthalene	91-20-3	>= 1 - < 5
Methylcyclopentadienyl Manganese Tricar-	12108-13-3	>= 0.1 - < 1
bonyl		

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. Consult a physician. Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.
lf inhaled	:	Move to fresh air. Call a physician or poison control centre immediately. 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.
In case of eye contact	:	Flush eyes with water as a precaution. 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	:	Inhalation or ingestion of high levels of this material (or a component) may cause a hemolytic reaction. Complications of acute intravascular hemolysis include anemia, leukocytosis, fever, hemoglobinuria, jaundice, renal insufficiency, and sometimes disturbances in liver function. Fats, for example, baby oil on the skin or ingested oil, facilitate absorption of naphthalene. May be fatal if swallowed and enters airways.



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				Suspected of cau	iness or dizziness.
SEC	CTION 5	5. FIREFIGHTING MEA	SU	RES	
	Suitab	le extinguishing media	:	Water spray Carbon dioxide (C Dry chemical Alcohol-resistant	
	Unsuita media	able extinguishing	:	High volume wate	er jet
	Specifi fighting	c hazards during fire-]	:	Do not allow run- courses.	off from fire fighting to enter drains or water
	Hazaro ucts	lous combustion prod-	:	Carbon oxides	
	Specifi ods	c extinguishing meth-	:	Product is compa	tible with standard fire-fighting agents.
	Furthe	r information	:	cumstances and f Fire residues and be disposed of in	measures that are appropriate to local cir- he surrounding environment. contaminated fire extinguishing water must accordance with local regulations. to cool fully closed containers.
		l protective equipment fighters	:	In the event of fire	e, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive 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 ab- sorbent material, (e.g. sand, earth, diatomaceous earth, ver-



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miculite) and place in container for disposal according to local / national regulations (see section 13).

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). 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 Protection 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. Prevent unauthorized access.
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	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
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



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1				2,000 mg/m3	
			TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
			TWA	400 ppm 1,600 mg/m3	OSHA P0
Petro	leum Naphtha	64742-94-5	TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
Naph	thalene	91-20-3	TWA	10 ppm	ACGIH
			TWA	10 ppm 50 mg/m3	NIOSH RE
			ST	15 ppm 75 mg/m3	NIOSH RE
			TWA	10 ppm 50 mg/m3	OSHA Z-1
			TWA	10 ppm 50 mg/m3	OSHA P0
			STEL	15 ppm 75 mg/m3	OSHA P0
	ylcyclopentadienyl Man- se Tricarbonyl	12108-13-3	TWA	0.2 mg/m3 (Manganese)	ACGIH
-			TWA	0.2 mg/m3 (Manganese)	NIOSH RE
			TWA	0.2 mg/m3 (Manganese)	OSHA P0
			С	5 mg/m3 (Manganese)	OSHA Z-1

Hazardous components without workplace control parameters

Components	CAS-No.
Alkanes, C10-C20 branched	928771-01-1
and linear	

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.
Hand protection	
Remarks :	Wear resistant gloves (consult your safety equipment suppli- er). The suitability for a specific workplace should be dis- cussed 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-



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		centration of th Wear as appro Impervious clo Flame-resistan Safety shoes	thing
Hygie	ene measures	practice. Avoid contact w When using do Wash hands bo the product.	ordance with good industrial hygiene and safety with skin, eyes and clothing. o not smoke. efore breaks and immediately after handling o not eat or drink.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

:	liquid
:	red
:	hydrocarbon-like
:	No data available
:	No data available
:	No data available
:	154 - 366 °C
:	Value for Component 58 °C
	Method: closed cup
:	No data available
:	2.2 hPa
:	No data available
:	7.13 lb/gal
:	No data available
:	No data available



Versior 5.0	Revision Date: 02/22/2019		S Number: 0000001461	Date of last issue: 10/26/2018 Date of first issue: 07/03/2018	
De	composition temperature	:	No data available	9	
Vi	scosity Viscosity, kinematic	:	No data available	e	
Mo	blecular weight	:	No data available		
SECTIO	ON 10. STABILITY AND R	EAC	ΤΙVΙΤΥ		
Re	activity	:	No decompositio	n if stored and applied as directed.	
Cł	emical stability	:	No decompositio	n if stored and applied as directed.	
Pc tio	ssibility of hazardous reac- ns	:		n if stored and applied as directed. m explosive mixture with air.	
Co	nditions to avoid	:	Heat, flames and	l sparks.	
Ind	compatible materials	:	Strong bases Strong acids Strong oxidizing	agents	
	zardous decomposition	:	Carbon oxides		

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely	routes of exposure
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Inhalation Eye contact Skin contact Ingestion

Acute toxicity

Toxic if inhaled.

Product:

Acute oral toxicity	:	Acute toxicity estimate: 4,688 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 0.55 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Components:		
Diesel fuel no. 2: Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg



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Acute	inhalation toxicity	Exposure t Test atmos	male and female): 4.1 mg/l ime: 4 h sphere: dust/mist ECD Test Guideline 403
Acute	dermal toxicity		bit): > 4,300 mg/kg nt: No adverse effect has been observed in acute icity tests.
Keros	ene:		
Acute	oral toxicity		: > 5,000 mg/kg ECD Test Guideline 420
Acute	inhalation toxicity	Exposure t Test atmos Method: O Assessme	n: > 5.8 mg/l ime: 4 h sphere: vapour ECD Test Guideline 403 nt: No adverse effect has been observed in acute roxicity tests.
Acute	dermal toxicity	Method: O	bit): > 2,000 mg/kg ECD Test Guideline 402 nt: No adverse effect has been observed in acute icity tests.
Petrol	eum Naphtha:		
Acute	oral toxicity	: LD50 (Rat	: > 5,000 mg/kg
Acute	inhalation toxicity	Exposure f Test atmos Assessme	i: > 3,800 mg/m3 ime: 4 h sphere: vapour nt: No adverse effect has been observed in acute oxicity tests.
Acute	dermal toxicity		bit): > 2,000 mg/kg nt: No adverse effect has been observed in acute icity tests.
Alkan	es, C10-C20 branch	ed and linear:	
Acute	inhalation toxicity	: Assessme short term	nt: The component/mixture is moderately toxic after inhalation.
Napht	halene:		
-	oral toxicity	: LD50 (Mou Method: O	ise, male): 533 mg/kg ECD Test Guideline 401
Acute	inhalation toxicity	Exposure f Test atmos Assessme	n: > 0.4 mg/l ime: 4 h sphere: vapour nt: No adverse effect has been observed in acute noxicity tests.
Acute	dermal toxicity	: LD50 (Rat	male and female): > 2,500 mg/kg



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		Assessment: dermal toxicity	No adverse effect has been observed in acute y tests.
Meth	ylcyclopentadienyl N	langanese Tricarbo	nvl:
	oral toxicity	-	ale): 51.8 mg/kg
		LD50 (Rat, ma	ale and female): 58 mg/kg
Acute	inhalation toxicity	: LC50 (Rat, m	ale): 0.076 mg/l
/ 10010		Exposure time	e: 4 h
		Test atmosph	ere: vapour
			ale): 0.229 - 0.271 mg/l
		Exposure time Test atmosph	
Acute	e dermal toxicity	: LD50 (Rabbit)	: 140 mg/kg
Skin	corrosion/irritation		
Cause	es skin irritation.		
Produ	uct:		
Rema	arks: May cause skin i	rritation and/or derma	ititis.
<u>Com</u>	oonents:		
Diese	el fuel no. 2:		
	es: Rabbit		
	od: OECD Test Guide It: Irritating to skin.	ine 404	
Keros	sene:		
Resul	t: Irritating to skin.		
Petro	leum Naphtha:		
Resul	t: Irritating to skin.		
Naph	thalene:		
-	t: Possibly irritating to	skin	
Serio	us eye damage/eye i	rritation	
Not cl	assified based on ava	ilable information.	
Produ	uct:		
Rema	arks: Vapours may cau	use irritation to the ey	es, respiratory system and the skin.
<u>Com</u>	<u>oonents:</u>		
-	el fuel no 2.		

Diesel fuel no. 2: Species: Rabbit Result: Possibly irritating to eyes

SAFETY DATA SHEET



MOTOR MEDIC® LEAD SUBSTITUTE

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Method: OECD Test Guideline 405

Kerosene:

Result: Possibly irritating to eyes

Petroleum Naphtha:

Result: Irritating to eyes.

Naphthalene:

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:

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-	:	Limited evidence of carcinogenicity in animal studies
ment		



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•	halene: hogenicity - Assess-	: Limited evidence animals.	of carcinogenicity in inhalation studies with
IARC		Group 2B: Possibly carcinogenic to humans	
		Naphthalene	91-20-3
OSH	A	•	s product present at levels greater than or DSHA's list of regulated carcinogens.
NTP		Reasonably anticipa	ted 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.





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Petroleum Naphtha:

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: 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 1268
Proper shipping name	:	Petroleum distillates, n.o.s.
Class	:	3
Packing group	:	111
Labels	:	3
Packing instruction (cargo	:	366
aircraft)		
Packing instruction	:	355
(passenger aircraft)		
IMDG-Code		
UN number		UN 1268
UN Humber	•	011/200



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Class Packi Label EmS	ng group s	: : : : : : : : : : : : : : : : : : : :	PETROLEUM DIS 3 III 3 F-E, S-E no	STILLATES, N.O.S.
	sport in bulk according oplicable for product as	-		OL 73/78 and the IBC Code
Natio	nal Regulations			
	F R //NA number er shipping name	:	UN 1268 Petroleum distillat	es, n.o.s.
Class		:	3	

SECTION 15. REGULATORY INFORMATION

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

: 111

: 3

: 128

: no

CERCLA Reportable Quantity

Packing group

Marine pollutant

Labels ERG Code

Components	CAS-No.		Calculated product RQ
		(lbs)	(lbs)
Xylene	1330-20-7	100	100 (F003)
Ethylbenzene	100-41-4	100	100 (F003)
Benzene	71-43-2	10	10 (D018)
Naphthalene	91-20-3	100	3009

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Methylcyclopentadienyl Manga-	12108-13-3	100	*
nese Tricarbonyl			

*: Calculated RQ exceeds reasonably attainable upper limit.

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	A S C S	Tammable (gases, aeroso Acute toxicity (any route of Skin corrosion or irritation Carcinogenicity Specific target organ toxici Aspiration hazard	exposure)	
SARA 313		he following components ablished by SARA Title III		orting levels es-
	Ν	laphthalene	91-20-3	>= 1 - < 5 %



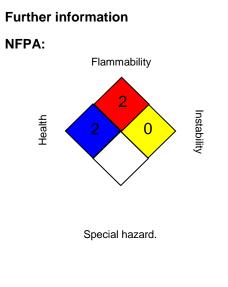
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California Prop. 65

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



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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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