

## **SAFETY DATA SHEET**

#### 1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE A0183

**PRODUCT NAME** METHYL 2 NONENOATE(NEOFOLIONE)

**SUPPLIER** Shanghai M & U International Trade Co., Ltd.

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FOR EMERGENCIES CALL CHEMTREC: 800-424-9300 (24-HOURS)

#### 2. HAZARD IDENTIFICATION:

Physical hazards

Flammable liquids Category 4

Health hazards

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A

**Environmental hazards** 

Hazardous to the aquatic environment,

acute hazard Category 2

Hazardous to the aquatic environment,

long-term hazard Category 2

**Label elements** 

Signal word

Warning

**Hazard statement** 

H227 Combustible liquid. H315 Causes skin irritation.

H315 + H320 Causes skin and eye irritation. H319 Causes serious eye irritation.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

#### **Precautionary statement**

#### **Prevention**

P210	Keep away from	heat/sparks/open	flames/hot surfac	es. No smoking.

P264 Wash thoroughly after handling. P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.

#### Response

P302 + P352	IF ON SKIN: Wash with plenty of water.
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P305 + P351 +

P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use appropriate media to extinguish.

P391 Collect spillage.

**Storage** 

P403 + P235 Store in a well-ventilated place. Keep cool.

**Disposal** 

P501 Dispose of contents/container in accordance with

local/regional/national/international regulations.

# Hazard(s) not otherwise classified (HNOC)

None known.

#### **Supplemental information**

None.

#### 3. COMPOSITION AND INFORMATION ON INGREDIENTS:

#### Substances

Chemical name	Common name and synonyms	CAS number	%
METHYL 2-NONENOATE	methyl nonylenate	111-79-5	100
	melon nonenoate	- 100	

#### 4. FIRST-AID GUIDE:

#### **Inhalation**

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.

#### Skin contact

Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.

#### Eye contact

Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.

# **Ingestion**

Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.

#### Most important symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

# Indication of immediate medical attention and special treatment needed

Not available.

#### **General information**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

# Suitable extinguishing media

Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

#### **Unsuitable extinguishing media**

Do not use a solid water stream as it may scatter and spread fire.

#### Specific hazards arising from the chemical

Fire may produce irritating, corrosive and/or toxic gases.

#### Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode when fighting fires.

#### Firefighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control.

#### **Specific methods**

Use water spray to cool unopened containers.

#### General fire hazards

Static charges generated by emptying package in or near flammable vapor may cause flash fire.

#### 5. ACCIDENTAL RELEASE GUIDE:

### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

#### Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

The product is immiscible with water and will spread on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Do not allow material to contaminate ground water system. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Collect and dispose of spillage as indicated in section 13 of the SDS.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid release to the environment. Retain and dispose of contaminated wash water. Contact local authorities in case of spillage to drain/aquatic environment.

#### 6. HANDLING AND STORAGE:

#### **Precautions for safe handling**

Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.

#### Conditions for safe storage, including any incompatibilities

Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

#### 7. EXPOSURE AND PERSONAL PROTECTION:

#### Occupational exposure limits

No exposure limits noted for ingredient(s).

#### **Biological limit values**

No biological exposure limits noted for the ingredient(s).

# **Appropriate engineering controls**

Use explosion-proof ventilation equipment to stay below exposure limits.

# Individual protection measures, such as personal protective equipment Eye/face protection

Wear safety glasses with side shields (or goggles).

# **Skin protection**

# **Hand protection**

Chemical resistant gloves.

#### Other

Not available.

#### **Respiratory protection**

Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided.

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

#### **General hygiene considerations**

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### 8. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	Refer to Spec Sheet
Physical state	Liquid.
Form	Liquid.
Color	Refer to Spec Sheet
Odor	Characteristic.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	294.8 °F (146 °C) at 30 mmHg
Flash point	196.0 °F (91.1 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive	
limits	

Flammability limit – lower (%)	Not available.
Flammability limit – upper (%) Not	
available.	
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.05 mm Hg at 20 °C
Vapor density	5.9
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
<b>Decomposition temperature</b>	Not available.
Viscosity	Not available.
Other information	
Flammability class	Combustible IIIB estimated
Molecular formula	C10H18O2
Molecular weight	170.25 g/mol
Specific gravity	0.9 at 25 °C

#### 9. STABILITY AND REACTIVITY:

#### Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

#### **Chemical stability**

Material is stable under normal conditions.

## Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

#### **Conditions to avoid**

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

## **Incompatible materials**

Strong oxidizing agents.

## **Hazardous decomposition products**

No hazardous decomposition products if stored and handled as indicated.

#### 10. TOXICOLOGICAL INFORMATION:

# Information on likely routes of exposure

#### Inhalation

No adverse effects due to inhalation are expected.

#### Skin contact

Causes skin irritation.

#### **Eye contact**

Causes serious eye irritation. Causes mild eye irritation.

#### **Ingestion**

Expected to be a low ingestion hazard.

#### Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

# Information on toxicological effects Acute toxicity

Product	Species	Test Results	
METHYL 2-NONENOATE (CAS 111-79-5)			
Acute	(A)		
Dermal			
LD50	Rabbit	> 5000 mg/kg	
Oral			
LD50	Rat	> 5000 mg/kg	

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

# Respiratory or skin sensitization

#### Respiratory sensitization

Not a respiratory sensitizer.

#### Skin sensitization

This product is not expected to cause skin sensitization.

#### Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

#### Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

#### Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

# Specific target organ toxicity - single exposure

Not classified.

### Specific target organ toxicity repeated exposure

Not classified.

#### **Aspiration hazard**

Not an aspiration hazard.

#### 11. ECOLOGICAL INFORMATION:

#### **Ecotoxicity**

Toxic to aquatic life with long lasting effects.

Product		Species		<b>Test Results</b>
METHYL 2-NONEN	OATE (C.	AS 111-79-5)		
Aquatic	9			
Acute				The state of the s
Fish	LC50	P imephales promelas	Maria di Salah	1.5 mg/l, 96 hours

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

#### Persistence and degradability

No data is available on the degradability of this product.

#### **Bioaccumulative potential**

No data available.

#### Mobility in soil

No data available.

#### Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 12. DISPOSAL RECOMMENDATIONS:

#### **Disposal instructions**

Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

## Local disposal regulations

Dispose in accordance with all applicable regulations.

#### Hazardous waste code

Not established.

#### Waste from residues / unused products

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

# **Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

#### 13. TRANSPORTATION INFORMATION:

ADN	
UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
The second secon	LIQUID, N.O.S. (METHYL 2-NONENOATE)
Transport hazard class(es)	9
Subsidiary class(es)	-
Packing group	III
Environmental hazards	Yes
Labels required	9
ADR	and the second s
UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
	LIQUID, N.O.S. (METHYL 2-NONENOATE)
Transport hazard class(es)	9
Subsidiary class(es)	-
Packing group	III
<b>Environmental hazards</b>	Yes
<b>Tunnel restriction code</b>	E
Labels required	9
Special precautions for user	Read safety instructions, SDS and emergency procedures before
	handling.
RID	
UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
	LIQUID, N.O.S. (METHYL 2-NONENOATE)
Transport hazard class(es)	9
Subsidiary class(es)	-
Packing group	III
<b>Environmental hazards</b>	Yes

Labels required	9
DOT	
BULK	
UN number	NA1993
Proper shipping name	COMBUSTIBLE LIQUID, N.O.S. (METHYL 2 NONENOATE)
Hazard class	Combustible liq
Packing group	III
Environmental hazards	
Marine pollutant	Yes
Special precautions	Read safety instructions, SDS and emergency procedures before
1 1	handling.
Special provisions	IB3, T1, T4, TP1
Packaging exceptions	150
Packaging non bulk	203
Packaging bulk	241
DOT	
NON-BULK	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	1100 regulated as durigerous goods.
UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
or proper simpping name	LIQUID, N.O.S. (METHYL 2-NONENOATE)
Transport hazard class(es)	9
Subsidiary class(es)	
Packing group	III
Environmental hazards	III
Marine pollutant	Yes
Labels required	9
EmS	F-A, S-F
Special precautions for user	Read safety instructions, SDS and emergency procedures before
Special precautions for user	handling.
Transport in bulk according	Not applicable.
to Annex II of MARPOL	Not applicable.
73/78 and the IBC Code	
ADN; ADR; IMDG; RID	
ADN; ADK; IMDG; KID	
	AIIII
	9
DOT BULK	
DOI BOLK	
	COMBUSTIBLE
	3
	¥

# Marine pollutant



#### 14. REGULATORY INFORMATION:

#### **US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

# US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

## SARA 304 Emergency release notification

Not regulated.

# OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

## TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

# **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

# **Hazard categories**

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - Yes

Pressure Hazard - No

Reactivity Hazard – No

#### SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312 Hazardous chemical

Yes

#### **SARA 313 (TRI reporting)**

Not regulated.

#### Other federal regulations

# Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated.

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

# Safe Drinking Water Act (SDWA)

Not regulated.

#### **US** state regulations

**US. Massachusetts RTK - Substance List** 

Not regulated.

# US. New Jersey Worker and Community Right-to-Know Act

Not listed.

# US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

#### **US. Rhode Island RTK**

Not regulated.

# **US. California Proposition 65**

# US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

# **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical	Yes
	Substances (AICS)	
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List	No
	(NDSL)	- 607
China	Inventory of Existing Chemical	Yes
	Substances in China (IECSC)	//
Europe	European Inventory of Existing	Yes
	Commercial Chemical Substances	
	(EINECS)	
Europe	European List of Notified Chemical	No
	Substances (ELINCS)	
Japan	Inventory of Existing and New	Yes
	Chemical Substances (ENCS)	
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes

Philippines	Philippine Inventory of Chemicals	Yes
	and Chemical Substances (PICCS)	
United States & Puerto Rico	Toxic Substances Control Act	Yes
	(TSCA) Inventory	

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 15. OTHER INFORMATION:

#### **HMIS®** ratings

Health: 2

Flammability: 2 Physical hazard: 0

The information in this SDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond M&U's control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the SDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the SDS. The user should review these regulations to ensure full compliance.

Prepared By: M&U International LLC REVISED: 02/17/2015