

# MATERIAL SAFETY DATA SHEET

# 1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE A0033

PRODUCT NAME CITRONELLA OIL

**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

Acute toxicity, dermal

Skin corrosion/irritation

Serious eye damage/eye irritation

Sensitization, skin

Germ cell mutagenicity

Category 2

Carcinogenicity

Category 2

Category 2

Specific target organ toxicity, single

exposure Category 2
Aspiration hazard Category 1

# **Environmental hazards**

Hazardous to the aquatic environment,

long-term hazard Category 2

#### Label elements



# Signal word

Danger

# **Hazard statement**

H227	Combustible liquid.
H304	May be fatal if swallowed and enters airways.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H371	May cause damage to organs.
H411	Toxic to aquatic life with long lasting effects.

# **Precautionary statement**

# 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/sparks/open flames/hot surfaces. No smoking.
P260	Do not breathe mist or vapor.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/face protection.

# Response

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see this label).
P331	Do NOT induce vomiting.
P333 + P313	If skin irritation or rash occurs: 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.
P405	Store locked up.

# Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### **Hazard**(s) not otherwise classified (HNOC)

None known.

# **Supplemental information**

Not applicable.

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

#### Substances

Hazardous components			
Chemical name	Common name and synonyms	CAS number	%
CITRONELLA OIL		8000-29-1	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 or 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

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause an allergic skin reaction. Dermatitis. Rash. 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.

#### 5. FIRE-FIGHTING GUIDE:

# 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.

# Fire-fighting 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.

#### 6. ACCIDENTAL RELEASE GUIDE:

# Personal precautions, protective equipment and emergency procedures

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

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

Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean surface thoroughly to remove residual contamination. Collect and dispose of spillage as indicated in section 13 of the SDS. Never return spills in original containers for re-use.

#### **Environmental precautions**

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

#### 7. 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 prolonged exposure. Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing.

# 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.

#### 8. 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

Avoid contact with eyes.

# Skin protection Hand protection

Chemical resistant gloves.

#### Other

Use of an impervious apron is recommended.

#### **Respiratory protection**

Chemical respirator with organic vapor cartridge and full facepiece.

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

#### **General hygiene considerations**

When using, do not eat, drink or 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. Contaminated work clothing should not be allowed out of the workplace.

# 9. 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	Not available.	
Flash point	170.0 °F (76.7 °C) Closed Cup	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not available.	
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	0.03 kPa at 25 °C	
Vapor density	Not available.	
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 IIIA estimated	
Molecular formula	Not applicable	
Specific gravity	0.88 at 25 °C	

# 10. 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.

#### 11. TOXICOLOGICAL INFORMATION:

# Information on likely routes of exposure

# **Ingestion**

May be fatal if swallowed and enters airways.

#### Inhalation

May be fatal if swallowed and enters airways. May cause damage to organs by inhalation.

#### Skin contact

May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.

#### **Eve contact**

Causes serious eye damage. Causes mild eye irritation.

# Symptoms related to the physical, chemical and toxicological characteristics

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause an allergic skin reaction. Skin irritation. May cause redness and pain. Dermatitis. Rash.

# **Information on toxicological effects**

# **Acute toxicity**

May be fatal if swallowed and enters airways. May be harmful in contact with skin. May cause an allergic skin reaction. Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Product	Species	Test Results	
CITRONELLA OIL (CAS 8000-29-1)			
Acute			
Dermal			
LD50	Rabbit	4700 mg/kg	
Oral			
LD50	Rat	7200 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 damage.

# Respiratory or skin sensitization

# Respiratory sensitization

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals. May cause sensitisation by inhalation.

#### Skin sensitization

May cause an allergic skin reaction.

# Germ cell mutagenicity

Suspected of causing genetic defects.

#### Carcinogenicity

Suspected of causing cancer.

# US. 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

May cause damage to organs.

# Specific target organ toxicity - repeated exposure

Not classified.

#### **Aspiration hazard**

May be fatal if swallowed and enters airways.

#### 12. ECOLOGICAL INFORMATION:

#### **Ecotoxicity**

Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Product	Species	Test Results
CITRONELLA OIL (CAS 8000-29-1)		
Acute		
Crustaceav	Daphnia magna	26.4 mg/l, 48 hours
Other	Rainbow Trout	17.3 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.

#### 13. 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

#### 14. TRANSPORTATION INFORMATION:

ADN	- 100
UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
	LIQUID, N.O.S. (CITRONELLA OIL)
Transport hazard class(es)	9
Subsidiary class(es)	-
Packing group	III
Environmental hazards	Yes
Labels required	9
Special precautions for user	Not available.
ADR	

UN number	3082	
	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,	
UN proper shipping name	LIQUID, N.O.S. (CITRONELLA OIL)	
Transport hazard alass(as)	19	
Transport hazard class(es)	9	
Subsidiary class(es)	-	
Packing group	III	
Environmental hazards	No	
Tunnel restriction code	E	
Labels required	9	
Special precautions for user	Read safety instructions, SDS and emergency procedures	
DID	before handling.	
RID	2002	
UN number	3082	
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,	
	LIQUID, N.O.S. (CITRONELLA OIL)	
Transport hazard class(es)	9	
Subsidiary class(es)		
Packing group	III	
Environmental hazards	No	
Labels required	9	
Special precautions for user	Not available.	
DOT		
BULK		
UN number	NA1993	
Proper shipping name	COMBUSTIBLE LIQUID, N.O.S. (CITRONELLA OIL)	
Hazard class	Combustible Liquid	
Packing group	III	
Environmental hazards		
Marine pollutant	Yes	
Special precautions. Read safety instructions, SDS and emergency p		
	before handling	
Special provisions	B1, B52, IB3, T4, TP1, TP29	
Packaging exceptions	150	
Packaging non bulk	203	
Packaging bulk	242	
DOT		
NON-BULK	Not regulated as dangerous goods.	
IATA	Not regulated as dangerous goods.	
IMDG		
UN number	3082	
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,	
	LIQUID, N.O.S. (CITRONELLA OIL)	
Transport hazard class(es)	9	
Subsidiary class(es)	-	
Packing group	III	
Environmental hazards		

Marine pollutant	Yes
Labels required	9
EmS	F-A, S-F
Special precautions for user	Read safety instructions, SDS and emergency procedures
Special precautions for user	before handling.
Transport in hull according	before nandning.
Transport in bulk according to Annex II of MARPOL	Not applicable
73/78 and the IBC Code	Not applicable.
ADN; ADR; IMDG; RID	
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Marine pollutant	À
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# **15. 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.

# 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 - No 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 regulated.

# US. Pennsylvania RTK - Hazardous Substances

Not regulated.

#### **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)*
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Australia	Australian Inventory of Chemical	Yes
	Substances (AICS)	
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List	No
	(NDSL)	
China	Inventory of Existing Chemical	Yes
	Substances in China (IECSC)	
Europe	European Inventory of Existing	No
	Commercial Chemical Substances	
	(EINECS)	
Europe	European List of Notified	No
	Chemical Substances (ELINCS)	
Japan	Inventory of Existing and New	No
	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)

#### 16. 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

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).