

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/09/2013 Version: 1.0

SECT	ION 1: Identification of the su	bstance/mixture and of the company/undertaking	
1.1.	Product identifier		
Product	t form	: Substance	
Trade name		: Citronellal	
CAS No	0	: 106-23-0	
Product	t code	: C2400	
Formula	a	: C10H18O	
Synony BIG no	ms	<ul> <li>: (+/-)-3,7-dimethyl-6-octenal / (+/-)-citronellal / 3,7-dimethyl-6-octen-1-al / 3,7-dimethyl-6-octenal / 3,7-dimethyloct-6-enal / 4-acetyl resorcinol / 6-octenal, 3,7-dimethyl- / beta-citronellal / D-rhodinal / Environmentally hazardous substance, liquid, n.o.s. / FEMA No. 2307 / resorcinol, 4-acetyl / rhodinal / rhodinal,D-</li> <li>: 28689</li> </ul>	
1.2.	Relevant identified uses of the sub	ostance or mixture and uses advised against	
1.3.	с		
CHEMT 27-29 E Fairfield T 862-7 <u>contact</u>	FEX USA Dwight Place d, 07004 - USA 702-8900 - F 862-702-8180 @chemtexusa.com - <u>www.chemtexusa.</u>		
1.4.	Emergency telephone number		
Emerge	ency number	: CHEMTEL:(800)255-3924	
SECT	ION 2: Hazards identification		
2.1.	Classification of the substance or	mixture	
Classif	ication (GHS-US)		
Aquatic	it. 2 H315 t. 2A H319 ens. 1 H317		
2.2.	Label elements		
GHS-U	Slabeling		
	pictograms (GHS-US)	: GHS07 GHS09	
Signal v	word (GHS-US)	: Warning	
Hazard	statements (GHS-US)	<ul> <li>H227 - Combustible liquid</li> <li>H315 - Causes skin irritation</li> <li>H317 - May cause an allergic skin reaction</li> <li>H319 - Causes serious eye irritation</li> <li>H336 - May cause drowsiness or dizziness</li> <li>H401 - Toxic to aquatic life</li> <li>H411 - Toxic to aquatic life with long lasting effects</li> </ul>	
Precaut	tionary statements (GHS-US)	<ul> <li>P210 - Keep away from heat/sparks/open flames/hot surfaces No smoking P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P264 - Wash thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P272 - Contaminated work clothing must not be allowed out of the workplace P273 - Avoid release to the environment</li> </ul>	
		P280 - Wear protective gloves/protective clothing/eye protection/face protection	

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P302+P352 - If on skin: Wash with plenty of water/ P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing 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/doctor/ if you feel unwell P321 - Specific treatment (see on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362 - Take off contaminated clothing and wash it before reuse P362+P364 - Take off contaminated clothing and wash it before reuse P370+P378 - In case of fire: Use to extinguish P391 - Collect spillage P403+P233 - Store in a well-ventilated place. Keep container tightly closed P403+P235 - Store in a well-ventilated place. Keep cool P405 - Store locked up P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-bazardous
P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

### 2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

### Not applicable

### SECTION 3: Composition/information on ingredients

### 3.1. Substance

Name	Product identifier	%	Classification (GHS-US)
Citronellal (Main constituent)	(CAS No) 106-23-0	100	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H336 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

#### Full text of H-phrases: see section 16

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3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.		
First-aid measures after inhalation	: Remove the victim into fresh air.		
First-aid measures after skin contact	: Wash immediately with lots of water (15 minutes)/shower. Soap may be used.		
First-aid measures after eye contact	<ul> <li>Rinse immediately with plenty of water for 15 minutes. Take victim to an ophthalmologist. Do not apply neutralizing agents.</li> </ul>		
First-aid measures after ingestion	: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Ingestion of large quantities: immediately to hospital. Call Poison Information Centre (www.big.be/antigif.htm).		
4.2. Most important symptoms and eff	ects, both acute and delayed		
Symptoms/injuries after inhalation	: May cause an allergic skin reaction. May cause drowsiness or dizziness.		
Symptoms/injuries after skin contact	: Tingling/irritation of the skin.		
Symptoms/injuries after eye contact	: Irritation of the eye tissue.		
Symptoms/injuries after ingestion	: Fatal if swallowed.		
Chronic symptoms	: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation.		
4.3. Indication of any immediate media	cal attention and special treatment needed		
No additional information available			

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SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Polyvalent foam. BC powder. Carbon dioxide.
Unsuitable extinguishing media	: Solid water jet ineffective as extinguishing medium.
5.2. Special hazards arising from the	substance or mixture
Fire hazard	: DIRECT FIRE HAZARD. Material presenting a fire hazard. INDIRECT FIRE HAZARD. Temperature above flashpoint: higher fire/explosion hazard. Reactions involving a fire hazard: see "Reactivity Hazard".
Explosion hazard	: DIRECT EXPLOSION HAZARD. No data available on direct explosion hazard. INDIRECT EXPLOSION HAZARD. No data available on indirect explosion hazard.
Reactivity	: Upon combustion: CO and CO2 are formed. In finely divided state: spontaneously flammable.
5.3. Advice for firefighters	
Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: seal off low-lying areas. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefighting instructions	: Cool tanks/drums with water spray/remove them into safety.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.
SECTION 6: Accidental release me	easures
	equipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.
6.1.1. For non-emergency personnel	
Protective equipment	: Gloves. Face-shield. Protective clothing.
Emergency procedures	: Mark the danger area. No naked flames. Wash contaminated clothes.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent soil and water pollution. Prevent sprea	ading in sewers.
6.3. Methods and material for contain	ment and cleaning up
For containment	: Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill.
Methods for cleaning up	: Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.
6.4. Reference to other sections	
See Heading 8. Exposure controls and persor	nal protection.
<b>SECTION 7: Handling and storage</b>	
7.1. Precautions for safe handling	
Additional hazards when processed	
	: Handle empty containers with care because residual vapors are flammable. Keep away from heat/sparks/open flames/hot surfaces No smoking.
Precautions for safe handling	
Precautions for safe handling Hygiene measures	<ul> <li>heat/sparks/open flames/hot surfaces No smoking.</li> <li>Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Do not discharge the waste into the drain. Use earthed equipment. Keep away from naked flames/heat. At temperature &gt; flashpoint: use spark-/explosionproof appliances. Finely divided: spark- and explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Observe very strict hygiene - avoid contact. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory</li> </ul>
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Hygiene measures	<ul> <li>heat/sparks/open flames/hot surfaces No smoking.</li> <li>Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Do not discharge the waste into the drain. Use earthed equipment. Keep away from naked flames/heat. At temperature &gt; flashpoint: use spark-/explosionproof appliances. Finely divided: spark- and explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Observe very strict hygiene - avoid contact. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.</li> <li>Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.</li> </ul>
Hygiene measures 7.2. Conditions for safe storage, inclu	<ul> <li>heat/sparks/open flames/hot surfaces No smoking.</li> <li>Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Do not discharge the waste into the drain. Use earthed equipment. Keep away from naked flames/heat. At temperature &gt; flashpoint: use spark-/explosionproof appliances. Finely divided: spark- and explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Observe very strict hygiene - avoid contact. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.</li> <li>Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.</li> </ul>

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Incompatible products	: Strong bases. strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.
Storage temperature	: 20 °C
Heat-ignition	: KEEP SUBSTANCE AWAY FROM: heat sources.
Prohibitions on mixed storage	: KEEP SUBSTANCE AWAY FROM: (strong) acids. (strong) bases.
Storage area	: Store in a dry area. Store in a dark area. Provide for a tub to collect spills. Provide the tank with earthing. Meet the legal requirements.
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. opaque. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials	: SUITABLE MATERIAL: glass.
7.3. Specific end use(s)	

No additional information available

SECTION 8: Exposure controls/personal protection			
8.1. Control parameters			
Citronellal (106-23-0)			
ACGIH	Not applicable		
OSHA	Not applicable		

8.2. Exposure controls	
Personal protective equipment	: Avoid all unnecessary exposure.
Materials for protective clothing	: GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE: No data available. GIVE LESS RESISTANCE: No data available. GIVE POOR RESISTANCE: No data available.
Hand protection	: Gloves.
Eye protection	: Face shield.
Skin and body protection	: Protective clothing.
Respiratory protection	: High gas/vapour concentration: gas mask.
Other information	: When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Appearance	: Liquid.	
Color	: Colourless to light yellow	
Odor	: Lemon odour	
Odor threshold	: No data available	
рН	: 7	
Melting point	: <-20 °C	
Freezing point	: No data available	
Boiling point	: 206 °C	
Flash point	: 76 °C	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: No data available	
Explosion limits	: 1.2 - 4.5 vol %	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Vapor pressure	: < 0.71 hPa	
Vapor pressure at 50 °C	: 2 hPa	
Relative density	: 0.86	
Relative vapor density at 20 °C	: No data available	
Specific gravity / density	: 856 kg/m <sup>3</sup>	
Molecular mass	: 154.25 g/mol	

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Solubility	: Insoluble in water. Soluble in oils/fats. Soluble in alcohols.
Log Pow	: 3.53 - 3.62
Log Kow	: No data available
Auto-ignition temperature	: 202 °C
Decomposition temperature	: >200 °C
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	

Other properties

: Gas/vapour heavier than air at 20°C. Slightly volatile. Substance has neutral reaction.

SECTION 10: Stability and reactivity			
10.1. Reactivity			
Upon combustion: CO and CO2 are formed. In finely divided state: spontaneously flammable.			
10.2. Chemical stability			
Unstable on exposure to light.			
10.3. Possibility of hazardous reactions			
Not established.			
10.4. Conditions to avoid			
Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.			
10.5. Incompatible materials			
strong acids. Strong bases.			

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

### SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	: Not classified
Citronellal (106-23-0)	
LD50 oral rat	2420 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE US (oral)	2420.000 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
	рН: 7
Serious eye damage/irritation	: Causes serious eye irritation.
	рН: 7
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. Fatal if swallowed.
Symptoms/injuries after inhalation	: May cause an allergic skin reaction. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Tingling/irritation of the skin.
Symptoms/injuries after eye contact	: Irritation of the eye tissue.
Symptoms/injuries after ingestion	: Fatal if swallowed.

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Chronic symptoms

: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation

Chronic symptoms	: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation.		
SECTION 12: Ecological information	bn		
12.1. Toxicity			
Ecology - general	: Dangerous for the environment.		
Ecology - water	: Mild water pollutant (surface water). Harmful to fishes. Toxic to algae. Toxic to aquatic organisms. Inhibition of activated sludge.		
Citronellal (106-23-0)			
LC50 fish 1	22 mg/l (96 h; Leuciscus idus)		
EC50 Daphnia 1	10 mg/l (24 h; Daphnia magna)		
EC50 Daphnia 2	8.7 mg/l (48 h; Daphnia magna)		
2.2. Persistence and degradability			
Citronellal (106-23-0)			
Persistence and degradability	Readily biodegradable in water. Photodegradation in the air.		
Chemical oxygen demand (COD)	2.67 g O₂/g substance		
ThOD	2.9 g O₂/g substance		
12.3. Bioaccumulative potential			
Citronellal (106-23-0)			
BCF other aquatic organisms 1	280 (QSAR)		
Log Pow	3.53 - 3.62		
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).		
12.4. Mobility in soil			
No additional information available			
12.5. Other adverse effects			
Other information	: Avoid release to the environment.		
SECTION 13: Disposal consideration	ons		
13.1. Waste treatment methods			
Waste disposal recommendations	: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or demonst to gether any entail a prevent to a set the necessary measures to prevent risks of pollution or demonst the store.		

	demonstrate provide an existence. Demonstrate an existence in since existence of with ex-
	damage to people or animals. Remove to an authorized incinerator equipped with an
	afterburner and a flue gas scrubber with energy recovery. Obtain the consent of pollution
	control authorities before discharging to wastewater treatment plants.
:	Hazardous waste according to Directive 2008/98/EC.

: Avoid release to the environment. Hazardous waste due to toxicity.

Additional information Ecology - waste materials

SECTION 14: Transport information

### **Department of Transportation (DOT)**

In accordance with DOT	
Transport document description	: UN1993 Flammable liquids, n.o.s., 3, III
UN-No.(DOT)	: UN1993
Proper Shipping Name (DOT)	: Flammable liquids, n.o.s.
Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid



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Packing group (DOT)	: III - Minor Danger
Dangerous for the environment	: Yes
larine pollutant	: Yes
	₹ <u>¥</u> 2
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	<ul> <li>B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.</li> <li>B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.</li> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 31HD2 and 31HH2). Additional Requirement: Only liquid with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 5 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Tabl 2 for UN2672).</li> <li>T4 - 2.65 178.274(d)(2) Normal</li></ul>
OOT Packaging Exceptions (49 CFR 173.xxx)	: 150
OOT Quantity Limitations Passenger aircraft/rail 49 CFR 173.27)	: 60 L
OOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Additional information	
Other information	: No supplementary information available.
ADR	
ransport document description	: UN 3082, 9, III, (E)
Packing group (ADR)	: 111
Class (ADR)	: 9 - Miscellaneous dangerous substances and articles
lazard identification number (Kemler No.)	: 90
Classification code (ADR)	: M6
lazard labels (ADR)	: 9 - Miscellaneous dangerous compounds
Orange plates	90 3082
Funnel restriction code (ADR)	: E
Transport by sea	
JN-No. (IMDG)	: 3082
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Class (IMDG)	: 9 - Miscellaneous dangerous compounds
EmS-No. (1)	: F-A
EmS-No. (2)	: S-F
Air transport	
UN-No. (IATA)	: 3082
Class (IATA)	: 9 - Miscellaneous Dangerous Goods
Packing group (IATA)	: III - Minor Danger

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

### Citronellal (106-23-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

**CANADA** No additional information available

#### **EU-Regulations**

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319 Full text of H-phrases: see section 16

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xi; R36/38 R43 N; R51/53 Full text of R-phrases: see section 16

#### **National regulations**

No additional information available

### 15.3. US State regulations

No additional information available

### **SECTION 16: Other information**

Other information

: None.

#### Full text of H-phrases:

Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2	
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2	
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A	
Flam. Liq. 4	Flammable liquids Category 4	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
Skin Sens. 1	Skin sensitization Category 1	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H227	Combustible liquid	
H315	Causes skin irritation	
H317	May cause an allergic skin reaction	
H319	Causes serious eye irritation	
H336	May cause drowsiness or dizziness	
H401	Toxic to aquatic life	
H411	Toxic to aquatic life with long lasting effects	

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NFPA health hazard	<ul> <li>0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.</li> </ul>	
NFPA fire hazard	: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	

SDS US (GHS HazCom 2012)

Disclaimer:

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