

## LICOLUB WE 4 P

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Version : 4 - 0 / USA	Date of printing :05/19/2015

### **SECTION 1. IDENTIFICATION**

Identification of the company:	Clariant Corporation 4000 Monroe Road Charlotte, NC, 28205 Telephone No.: +1 704 331 7000
	Information of the substance/preparation: Product Safety 1-704-331-7710
	Emergency tel. number: +1 800-424-9300 CHEMTREC
Trade name: Material number:	LICOLUB WE 4 P 107006
CAS number:	68476-38-0
Chemical family:	Reaction mass of montan wax and glycerides, montan-wax and fatt acids, montan-wax, ethylene esters

### **SECTION 2. HAZARDS IDENTIFICATION**

GHS Classification Combustible dust	:
GHS Label element Signal word	: Warning
Hazard statements	: May form combustible dust concentrations in air
Precautionary statements	<ul> <li>Prevention:</li> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P243 Take precautionary measures against static discharge.</li> <li>P233 Keep container tightly closed.</li> </ul>
<b>Other hazards</b> None known.	

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Glycerides, montan-wax	68476-38-0	<= 100

#### SECTION 4. FIRST AID MEASURES

General advice

: Get medical advice/ attention if you feel unwell.



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If inhaled	: Move the victim to fresh air. Give oxygen or artificial respiration if needed. Get immediate medical advice/ attention. Never give anything by mouth to an unconscious person.
In case of skin contact	: Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.
In case of eye contact	<ul> <li>Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.</li> <li>Get medical attention immediately if irritation develops and persists.</li> </ul>
If swallowed	<ul> <li>If swallowed, DO NOT induce vomiting.</li> <li>Do not give anything to drink.</li> <li>Call a physician immediately.</li> </ul>
Most important symptoms and effects, both acute and delayed	<ul> <li>The possible symptoms known are those derived from the labelling (see section 2).</li> <li>No additional symptoms are known.</li> </ul>
Notes to physician	: None known.

## SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Foam Water spray jet Dry powder
Unsuitable extinguishing media	:	High volume water jet Carbon dioxide (CO2)
Specific hazards during firefighting	:	None known.
		Electrical grounding of equipment is required to prevent possible dust explosion. Emits toxic fumes under fire conditions.
Further information	:	Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full protective clothing.
Special protective equipment for firefighters	:	Self-contained breathing apparatus
		impervious clothing Protective helmets



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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Wear suitable protective equipment. Collect into suitable container. Electrical grounding of equipment is required when handling powder to prevent possible dust explosion.
Environmental precautions	:	The product should not be allowed to enter drains, water courses or the soil.
Methods and materials for containment and cleaning up	:	Take up mechanically

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	: Take measures to prevent the build up of electrostatic charge.
	Combustible material
	Risk of dust explosion.
Advice on safe handling	<ul> <li>Avoid inhalation, ingestion and contact with skin and eyes.</li> <li>Wash thoroughly after handling.</li> <li>Avoid dust formation. Keep away from sources of ignition.</li> <li>Lead off electrostatic charges.</li> </ul>
Technical measures/Precautions	<ul> <li>Store in original container.</li> <li>Keep container tightly closed.</li> <li>Store in a cool, dry, well-ventilated area.</li> </ul>

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters		
Engineering measures	: Use adequate exhaust ventilation and/or dust collection to keep dust levels below exposure limits.	
Personal protective equipment	ıt	
Respiratory protection	: Use NIOSH/MSHA approved respirators following manufacturer's recommendations where dust or fume may be generated.	
Hand protection		
Remarks	: Butyl Rubber, PVC Or Neoprene.	
Eye protection	: Safety glasses or chemical splash goggles.	
Skin and body protection	: Wear suitable protective equipment.	



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Protective measures	: Avoid contact with eyes.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of workday.
TION 9. PHYSICAL AND CH	IEMICAL PROPERTIES
Appearance	: powder
Colour	: light yellow
Odour	: not specified
Odour Threshold	: cannot be determined
рН	: approx. 7, (20 °C)saturated aqueous solution
Melting point	: approx. 49 °C Method: DSC
	approx. 64 °C Method: DSC
	approx. 73 °C Method: DSC
Drop point	approx. 76 °C Method: DSC Data relate to the main peak. ca. 80 °C Method: DIN/ISO 2176
Boiling point	: Decomposes below the boiling point.
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: The product is not flammable. Method: 92/69/EC (L383) A.10 * flammability (solids) GLP: yes
Upper explosion limit	: not tested.
Lower explosion limit	: not tested.
Vapour pressure	: 0.00056 mPa (25 °C) Method: 92/69/EEC, A.4.

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CLARIANT

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Relative density	: 1.016 (23 °C) Method: ISO 1183
Density	: 1.016 g/cm3 (20 °C) Method: ISO 1183
Solubility(ies) Water solubility	: 21 mg/l (20 °C) pH: 7 Method: OECD Test Guideline 105
Solubility in other solvents	: not tested.
Partition coefficient: n- octanol/water	: log Pow: < 1 (20 °C) pH: 5.5 - 5.8 Method: other (calculated)
Auto-ignition temperature	: Not applicable
Decomposition temperature	: approx. 197 °C Method: DSC
Viscosity	
Viscosity, dynamic	: ca. 60 mPa.s (100 °C) Method: DIN 53019
Viscosity, kinematic	: Not applicable
Explosive properties	: There are no chemical groups associated with explosive properties present in the molecule.
Oxidizing properties	: The substance or mixture is not classified as oxidizing. There are no chemical groups associated with oxidising
Surface tension	<ul><li>properties present in the molecule. not oxidizing</li><li>Based on chemical structure, no surface activity is expected or can be predicted.</li></ul>
Sublimation point	: Not applicable

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use	<b>)</b> .
Chemical stability	: Stable under normal conditions.	
Possibility of hazardous reactions	<ul> <li>Potential dust explosion hazard.</li> <li>The substance or mixture does not emit flammable gases in contact with water.</li> <li>Not corrosive to metals</li> </ul>	



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Conditions to avoid	: Keep away from heat. Keep away from flames and sparks.
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	: When handled and stored appropriately, no dangerous decomposition products are known

#### SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicityProduct:Acute oral toxicity: LD50 (Rat, male and female): > 2,000 mg/kg<br/>Method: OECD Test Guideline 401<br/>GLP: yesAcute inhalation toxicity: Remarks: not requiredAcute dermal toxicity: LD50 (Rat, male and female): > 2,000 mg/kg<br/>Method: OECD Test Guideline 402<br/>GLP: yes<br/>Remarks: By analogy with a product of similar composition

### Skin corrosion/irritation

#### Product:

Species: Rabbit Exposure time: 4 h Method: OECD Test Guideline 404 Result: No skin irritation GLP: yes Remarks: By analogy with a product of similar composition

### Serious eye damage/eye irritation

### Product:

Species: rabbit eye Result: No eye irritation Exposure time: 72 h Method: OECD Test Guideline 405 GLP: yes Remarks: By analogy with a product of similar composition

### Respiratory or skin sensitisation

### Product:

Test Type: Mouse local lymphnode assay Exposure routes: Dermal Species: Mouse



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Method: OECD Test Guideli Result: non-sensitizing GLP: yes Remarks: By analogy with a	ne 429 product of similar composition
Germ cell mutagenicity	
Product:	
Genotoxicity in vitro	<ul> <li>Test Type: Ames test Species: Salmonella typhimurium Concentration: 0,8 - 10000 μg/plate Metabolic activation: with and without Method: OECD Test Guideline 471 Result: negative GLP: yes</li> </ul>
	<ul> <li>Test Type: Ames test Species: Escherichia coli Concentration: 0,8 - 10000 μg/plate Metabolic activation: with and without Method: OECD Test Guideline 471 Result: negative GLP: yes</li> </ul>
	<ul> <li>Test Type: Chromosome Aberration Test Species: V79 cells (embryonic lung fibroblasts) of the Chines hamster</li> <li>Concentration: 1,2 - 300 μg/ml</li> <li>Metabolic activation: with and without</li> <li>Method: OECD Test Guideline 473</li> <li>Result: negative</li> <li>GLP: yes</li> <li>Remarks: By analogy with a product of similar composition</li> </ul>
	<ul> <li>Test Type: HGPRT assay Species: V79 cells (embryonic lung fibroblasts) of the Chines hamster Concentration: 3 - 1000 μg/ml Metabolic activation: with and without Method: OECD Test Guideline 476 Result: negative GLP: yes Remarks: By analogy with a product of similar composition</li> </ul>
Genotoxicity in vivo	: Result: From scientific point of view the study is not necessary.
Germ cell mutagenicity - Assessment	: It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.
Carcinogenicity	
Product:	



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Carcinogenicity - Assessment	: Animal testing did not show any carcinogenic effects.
IARC	Not listed
OSHA	Not listed
NTP	Not listed
Reproductive toxicity	
Product:	
Effects on fertility	<ul> <li>Test Type: One generation study Species: Rat Sex: male and female Dose: 10 - 100 - 1000 mg/kg Frequency of Treatment: once daily Sprague-Dawley 49 - 52 d 14 d Group: yes NOAEL: 1,000 mg/kg, F1: 1,000 mg/kg, Method: OECD 421 GLP: yes Remarks: By analogy with a product of similar composition</li> </ul>
Effects on foetal development	<ul> <li>Species: Rat Application Route: oral (gavage) Exposure time: females day 6-19 post coitum Dose: 50 - 250 - 1000 mg/kg Group: yes 1,000 mg/kg 1,000 mg/kg Number of exposures: once daily Method: OECD Test Guideline 414 GLP: yes Remarks: By analogy with a product of similar composition</li> </ul>
Reproductive toxicity - Assessment	: No teratogenic effects to be expected.
	No reproductive toxicity to be expected.

### STOT - single exposure

### Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT - repeated exposure

### Product:



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Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### **Repeated dose toxicity**

### Product:

Species: Rat, male and female NOAEL: 3,916 mg/kg, >=50000 mg/kg diet Application Route: oral (feed) Exposure time: 90 d Number of exposures: daily Dose: 2000-10000-50000 mg/kg diet Group: yes Method: OECD Test Guideline 408 GLP: no data available

Application Route: Inhalation Method: Repeated dose toxicity Remarks: The study is not necessary from a scientific perspective.

Application Route: Dermal Method: Repeated dose toxicity Remarks: The study is not necessary from a scientific perspective.

#### Aspiration toxicity

Product:

No aspiration toxicity classification

#### Experience with human exposure

#### Product:

General Information

: The possible symptoms known are those derived from the labelling (see section 2).

### **SECTION 12. ECOLOGICAL INFORMATION**

### Ecotoxicity

#### Product:

Toxicity to fish	<ul> <li>LC50 (Danio rerio (zebra fish)): &gt; 10 g/l Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 203 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.</li> </ul>
	NOEC (Danio rerio (zebra fish)): 10 g/l Exposure time: 96 h

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	Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 203 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to daphnia and other aquatic invertebrates	<ul> <li>EC50 (Daphnia magna (Water flea)): &gt; 10 g/l Exposure time: 48 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 202 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.</li> </ul>
	NOEC (Daphnia magna (Water flea)): 10 g/l Exposure time: 48 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 202 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to algae	<ul> <li>EC10 (Desmodesmus subspicatus (Scenedesmus subspicatus)): &gt; 320 mg/l</li> <li>End point: Growth rate</li> <li>Exposure time: 72 h</li> <li>Test Type: static test</li> <li>Analytical monitoring: yes</li> <li>Method: OECD Test Guideline 201</li> <li>GLP: yes</li> <li>Remarks: By analogy with a product of similar composition</li> <li>The details of the toxic effect relate to the nominal concentration.</li> </ul>
	EC20 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 320 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes Remarks: By analogy with a product of similar composition The details of the toxic effect relate to the nominal concentration.
	EC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 320 mg/l End point: Growth rate Exposure time: 72 h



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	Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes Remarks: By analogy with a product of similar composition The details of the toxic effect relate to the nominal concentration.
	EC10 (Desmodesmus subspicatus (Scenedesmus subspicatus)): 100 - 320 mg/l End point: Biomass Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes Remarks: By analogy with a product of similar composition The details of the toxic effect relate to the nominal concentration.
	EC20 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 320 mg/l End point: Biomass Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes Remarks: By analogy with a product of similar composition The details of the toxic effect relate to the nominal concentration.
	EC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 320 mg/l End point: Biomass Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes Remarks: By analogy with a product of similar composition The details of the toxic effect relate to the nominal concentration.
Toxicity to fish (Chronic toxicity)	: Remarks: not required
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	<ul> <li>NOEC (Daphnia magna (Water flea)): approx. 100 mg/l Exposure time: 21 d End point: Reproduction rate Test Type: semi-static test Analytical monitoring: no Method: OECD Test Guideline 211</li> </ul>





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	GLP: yes Remarks: By analogy with a product of similar composition The details of the toxic effect relate to the nominal concentration.
	LOEC (Daphnia magna (Water flea)): approx. > 100 mg/l Exposure time: 21 d End point: Reproduction rate Test Type: semi-static test Analytical monitoring: no Method: OECD Test Guideline 211 GLP: yes Remarks: By analogy with a product of similar composition The details of the toxic effect relate to the nominal concentration.
Toxicity to bacteria	<ul> <li>NOEC (activated sludge, domestic): 1,000 mg/l End point: Bacteria toxicity (respiration inhibition) Exposure time: 3 h Test Type: aquatic Analytical monitoring: no Method: OECD Test Guideline 209 GLP: yes Remarks: By analogy with a product of similar composition The details of the toxic effect relate to the nominal concentration.</li> </ul>
	: Test Type: Soil GLP: Remarks: not required
Toxicity to soil dwelling organisms	<ul> <li>Test Type: artificial soil</li> <li>NOEC (Eisenia fetida (earthworms)): 1,000 mg/kg</li> <li>Exposure time: 14 d</li> <li>End point: mortality</li> <li>Method: OECD Test Guideline 207</li> <li>GLP: yes</li> <li>Remarks: By analogy with a product of similar composition</li> </ul>
	Test Type: artificial soil LOEC (Eisenia fetida (earthworms)): > 1,000 mg/kg Exposure time: 14 d End point: mortality Method: OECD Test Guideline 207 GLP: yes Remarks: By analogy with a product of similar composition
	Remarks: The study is not necessary from a scientific perspective.
Plant toxicity	: Remarks: The study is not necessary from a scientific perspective.



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Sediment toxicity	: Remarks: not tested.
Persistence and degradabilit	у
Product:	
Biodegradability	<ul> <li>Test Type: aerobic Inoculum: activated sludge, domestic, non-adapted Concentration: 4.46 mg/l BOD in % of theoretical OD Result: Inherently biodegradable. Biodegradation: 59.7 % (BOD in % of theoretical OD) Exposure time: 28 d Method: OECD Test Guideline 301D GLP: yes</li> </ul>
Physico-chemical removability	: Remarks: The product is not readily biodegradable accor to OECD criteria but is inherently biodegradable.
Stability in water	: Remarks: Not applicable
Bioaccumulative potential	
Product:	
Bioaccumulation	: Remarks: Low potential for bioaccumulation (log Pow < 3
Mobility in soil	
Product:	
Distribution among environmental compartments	: Remarks: Not expected to adsorb on soil.
Other adverse effects	
Product:	
Environmental fate and pathways	: Remarks: not available
Results of PBT and vPvB assessment	: The substance is not identified as a PBT or as a vPvB substance.

## SECTION 13. DISPOSAL CONSIDERATIONS

## **Disposal methods**

RCRA - Resource	:	No Not as sold.
Conservation and Recovery		
Authorization Act		
Waste from residues	:	Dispose of spilled or waste product, contaminated soil and
		other contaminated materials in licensed landfill or treatment



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	facility in accordance with all local, state, and federal regulations.
Contaminated packaging	: Packaging that cannot be cleaned should be disposed of as product waste
SECTION 14. TRANSPORT INFO	RMATION

DOT	not restricted
ΙΑΤΑ	not restricted
IMDG	not restricted

### **SECTION 15. REGULATORY INFORMATION**

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

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards	: No SARA Hazards
SARA 302	: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	: This product does not contain any toxic chemical listed under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986.

#### **Clean Water Act**

Contains no known priority pollutants at concentrations greater than 0.1%.

The components of this product are reported in the following inventories:		
TSCA	: On TSCA Inventory	

TSCA

### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TSCA (USA)

### **SECTION 16. OTHER INFORMATION**

#### **Further information**



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Handle with care. Organic dusts have the potential to be explosive with static spark or flame initiation.

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This information is supplied under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and is offered in good faith based on data available to us that we believe to be true and accurate. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable to the material. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate for that use. No warranty, express or implied, is made regarding the accuracy of this data, the hazards connected with the use of the material, or the results to be obtained from the use thereof. We assume no responsibility for damage or injury from the use of the product described herein. Data provided here are typical and not intended for use as product specifications.

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