

# LICOLUB WE 60 FL

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## **SECTION 1. IDENTIFICATION**

Identification of the company:	Clariant Corporation 500 East Morehead Street Charlotte, NC, 28202 Telephone No.: +1 704 331 7000		
	Information of the substance/preparation: Product Stewardship, +1-704-331-7710 e-mail: SDS.NORAM@clariant.com		
	Emergency tel. number: +1 800-424-9300 CHEMTREC		
Trade name: Material number:	LICOLUB WE 60 FL 278537		
CAS number:	85116-93-4		

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

Chemical family:

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Fatty acids, C16-18, esters with pentaerythritol

Combustible dust

GHS I	abel	elem	ents
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Signal word	:	Warning
Hazard statements	:	May form combustible dust concentrations in air.
Precautionary statements	:	<b>Prevention:</b> P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P243 Take precautionary measures against static discharge. P233 Keep container tightly closed.

#### Other hazards

No additional hazards are known except those derived from the labelling.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Substance
Substance name	:	Fatty acids, C16-18, esters with pentaerythritol
CAS-No.	:	85116-93-4



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# Components

This product does not contain any components that require disclosure according to OSHA Hazard Communication Standard 2012.

SECTION 4. FIRST AID MEASURES		
General advice	:	Get medical advice/ attention if you feel unwell.
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	:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation develops and persists.
If swallowed	:	If conscious, give the victim plenty of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	The possible symptoms known are those derived from the labelling (see section 2). No additional symptoms are known. The possible risks known are those derived from the labelling (see section 2).
Notes to physician	:	Treat symptomatically.

#### **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.
Further information	:	Wear suitable protective equipment.
Special protective equipment for firefighters	:	Wear personal protective equipment. In the event of fire, wear self-contained breathing apparatus.



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## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Wear suitable protective equipment.
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 Take measures to prevent the build up of electrostatic charge. Treat recovered material as described in the section "Disposal considerations". Avoid dust formation. Risk of dust explosion.

### SECTION 7. HANDLING AND STORAGE

Advice on protection against : fire and explosion	Take precautionary measures against build-up of electrostatic charges, e.g earthing during loading and off-loading operations. Keep away sources of ignition. Dust can form an explosive mixture in air.
Advice on safe handling :	Avoid dust formation. Keep away from sources of ignition. Lead off electrostatic charges. Avoid inhalation, ingestion and contact with skin and eyes. Wash thoroughly after handling.
	Use personal protective equipment. Avoid breathing dust. Avoid contact with skin and eyes. Wash thoroughly after handling. Store in a dry place. Keep away from heat. Store in original container. Keep container tightly closed.
Further information on : storage conditions	Store in original container. Keep container tightly closed. Store in a cool, dry, well-ventilated area.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.



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Engineering measures :	A system of local and/or general exhaust is recommended where employee exposures are at or above Occupational Exposure Limits (OEL).
Personal protective equipment	E Contraction of the second
Respiratory protection :	Wear NIOSH approved particulate filtering respirator rated N, R, or P95 or 100 or equivalent in the absence of proper environmental control. Type of respirator depends on level of exposure.
Hand protection Remarks :	Butyl Rubber, PVC Or Neoprene.
Eye protection :	Safety glasses with side-shields
Skin and body protection :	Wear protective clothing, including long sleeves and gloves, to prevent skin contact.
Protective measures :	Observe the usual precautions for handling chemicals.
Hygiene measures :	Wash hands before breaks and at the end of workday. When using do not eat, drink or smoke. Use protective skin cream before handling the product.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	flakes
Colour	:	white
Odour	:	not specified
Odour Threshold	:	not determined
рН	:	ca. 6 (68 °F / 20 °C) Method: Aqueous solution
Drop point	:	ca. 140 °F / 60 °C Method: DIN/ISO 2176
Boiling point	:	Decomposition: Decomposes below the boiling point. Method: DTA
Evaporation rate	:	no data available
Flammability (solid, gas)	:	does not ignite
Self-ignition	:	Method: Expert judgement



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		The substance or mixture is not classified as pyrophoric.
		> 824 °F / > 440 °C Method: VDI 2263 (Grewer) The substance or mixture is not classified as self heating.
		302 °F / 150 °C Method: VDI 2263 (Grewer) The sample was mixed 1:1 with diatomaceous earth. No autoignition in the absence of diatomaceous earth.
Burning number	:	1 Method: VDI 2263, ESCIS, Vol. 1 Does not catch fire
Upper explosion limit / upper flammability limit	:	no data available
Lower explosion limit / Lower flammability limit	:	no data available
Vapour pressure	:	< 0.1 Pa (68 °F / 20 °C) Decomposition: Decomposes below the boiling point. Method: calculated
Relative vapour density	:	no data available
Density	:	0.992 g/cm3 (73 °F / 23 °C) Method: ISO 1183
Solubility(ies) Water solubility	:	< 0.353 mg/l (68 °F / 20 °C) pH: 6 Method: EEC L251,A.6. Flask meth. 1984 GLP: yes
Partition coefficient: n- octanol/water	:	log Pow: 30.81 Method: calculated
Decomposition temperature	:	The substance or mixture is not classified self-reactive.
		Heating rate: 3 K/min Method: DSC No decomposition up to 300 °C.
Viscosity Viscosity, dynamic	:	ca. 13 mPa.s (212 °F / 100 °C) Method: DIN 53019
Viscosity, kinematic	:	no data available
Dust deflagration index (Kst)	:	80 m.b_/s



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Dust explosion class	:	St1
Minimum ignition energy	:	1,000 mJ (68 °F / 20 °C) Method: EN 13821 / ASTM E2019-03 with inductive electrical resistance
Particle size	:	379 μm Method: Laser diffraction with dispersion in dry air. Median value

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable
Possibility of hazardous reactions	:	Reactions with strong oxidising agents. Dust can form an explosive mixture in air. Stable
Conditions to avoid	:	Keep away from open flames, hot surfaces and sources of ignition. Avoid dust formation. Dust may form explosive mixture in air.
Incompatible materials	:	none
Hazardous decomposition products	:	No decomposition if used as directed.

# SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of e Inhalation Eye contact Skin contact	exposure
Acute toxicity	
Product:	
Acute oral toxicity :	LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 423 GLP: yes Remarks: By analogy with a product of similar composition No adverse effect has been observed in acute toxicity tests.
Acute inhalation toxicity :	Acute toxicity estimate: 5.25 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity :	LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402

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GLP: No information available. Remarks: By analogy with a product of similar composition No adverse effect has been observed in acute toxicity tests.

## Skin corrosion/irritation

## Product:

Species: Rabbit Exposure time: 24 - 72 h Method: OECD Test Guideline 404 Result: No skin irritation GLP: No information available. Remarks: By analogy with a product of similar composition

## Serious eye damage/eye irritation

## Product:

Species: Rabbit Result: No eye irritation Exposure time: 24 h Method: OECD Test Guideline 405 GLP: yes

## Respiratory or skin sensitisation

## Product:

Test Type: Maximisation Test Exposure routes: Dermal Species: Guinea pig Method: OECD Test Guideline 406 Result: Not a skin sensitizer. GLP: No information available. Remarks: By analogy with a product of similar composition

## Germ cell mutagenicity

## Product:

Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro
	Test system: Human lymphocytes
	Metabolic activation: with and without metabolic activation
	Method: OECD Test Guideline 473
	Result: negative
	GLP: No information available.
	Remarks: By analogy with a product of similar composition
	Test Type: Ames test
	Test system: Salmonella typhimurium
	Metabolic activation: with and without metabolic activation
	Method: OECD Test Guideline 471
	Result: negative
	GLP: No information available.



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	Test Type: In vitro gene mutation study in mammalian cells Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: No information available. Remarks: By analogy with a product of similar composition
Genotoxicity in vivo	<ul> <li>Test Type: Micronucleus test Species: Mouse (male and female) Strain: CD1 Cell type: Erythrocytes Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: negative GLP: yes Remarks: By analogy with a product of similar composition</li> </ul>
Germ cell mutagenicity - Assessment	: In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects
Carcinogenicity	
<u>Product:</u> Carcinogenicity - Assessment	: No information available.
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Reproductive toxicity	
Product: Effects on foetal development	<ul> <li>Test Type: reproductive and developmental toxicity study Species: Rat, female Strain: Other Application Route: oral (gavage) Dose: 100, 50, and 100 mg/kg bw/day Duration of Single Treatment: 9 d Frequency of Treatment: 1 daily General Toxicity Maternal: NOAEL: &gt;= 1,000 mg/kg body weight Embryo-foetal toxicity: NOAEL: &gt;= 1,000 mg/kg body weight Method: OECD Test Guideline 414 GLP: yes</li> </ul>

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Remarks: By analogy with a product of similar composition

Reproductive toxicity -	:	No evidence of adverse effects on sexual function and fertility,
Assessment		or on development, based on animal experiments.

# STOT - single exposure

## Product:

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

## STOT - repeated exposure

## Product:

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: 12500 mg/kg bw/day Application Route: oral (feed) Exposure time: 28 d Number of exposures: daily Dose: 1000, 5000, 12500 ppm in diet Group: yes Method: OECD Test Guideline 407 GLP: yes Remarks: By analogy with a product of similar composition

Species: Rat, male and female NOAEC: 0.5 mg/l Application Route: inhalation (dust/mist/fume) Exposure time: 13 weeks Number of exposures: 6 hours/day 5 days/week Dose: 0.05, 0.15 and 0.5 mg/L Method: OECD Test Guideline 413 GLP: No information available. Remarks: By analogy with a product of similar composition

Species: Rat, male and female NOAEL: > 2000 mg/kg bw/day Application Route: Dermal Exposure time: 13 weeks Number of exposures: 24 hours/day 5 days/week Dose: 2000 mg/kg bw/day Method: OECD Test Guideline 411 GLP: No information available. Remarks: By analogy with a product of similar composition



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Aspiration toxicity	
Product:	
no data available	
Experience with human expo	sure
Product:	
General Information	: The possible symptoms known are those derived from the labelling (see section 2).
CTION 12. ECOLOGICAL INFO	RMATION
Ecotoxicity	
Product:	
Toxicity to fish	<ul> <li>LC50 (Cyprinus carpio (Carp)): &gt; 100 mg/l End point: mortality Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes Remarks: By analogy with a product of similar composition No toxicity at the limit of solubility The details of the toxic effect relate to the nominal</li> </ul>
Toxicity to daphnia and other	concentration.
aquatic invertebrates	End point: Immobilization Exposure time: 48 h Test Type: static test
	Method: Regulation (EC) No. 440/2008, Annex, C.2 GLP: No information available.
	Remarks: By analogy with a product of similar composition No toxicity at the limit of solubility
Toxicity to algae/aquatic plants	<ul> <li>EL50 (Pseudokirchneriella subcapitata (algae)): &gt; 100 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes Remarks: By analogy with a product of similar composition WAF (Water accommodated fraction) No toxicity at the limit of solubility</li> </ul>
Toxicity to fish (Chronic toxicity)	: Remarks: no data available
Toxicity to daphnia and other	: NOEL (Daphnia magna (Water flea)): >= 1 mg/l



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	Test Type: semi-static test Method: OECD Test Guideline 211 GLP: No information available. Remarks: No toxicity at the limit of solubility By analogy with a product of similar composition
Toxicity to microorganisms :	EC50 (Pseudomonas putida): > 10,000 mg/l End point: Growth rate Exposure time: 16 h Test Type: static test Method: ISO/DIS 10712.2 (Ref 3) GLP: yes Remarks: By analogy with a product of similar composition
Toxicity to soil dwelling : organisms	Test Type: artificial soil NOEC (Eisenia fetida (earthworms)): >= 1,000 mg/kg Exposure time: 14 d End point: mortality Method: OECD Test Guideline 207 GLP: No information available. Remarks: By analogy with a product of similar composition
Persistence and degradability	
Product:	
Biodegradability :	Test Type: aerobic Inoculum: activated sludge Concentration: 15.5 mg/l Result: Readily biodegradable. Biodegradation: 71.9 - 99.8 % (Carbon dioxide (CO2)) Exposure time: 28 d Method: OECD Test Guideline 301B GLP: yes Remarks: By analogy with a product of similar composition
Bioaccumulative potential	
Product:	
Bioaccumulation :	Species: Fish Bioconcentration factor (BCF): 24.68 Method: Other GLP: no Remarks: By analogy with a product of similar composition
Mobility in soil	
Product:	
Distribution among : environmental compartments	Adsorption/Soil Medium: Soil Koc: 1778.28 ml/g, log Koc: 3.25



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	Adsorption/Soil Medium: Soil log Koc: 19.81 Method: Other Remarks: By analogy with a product of similar composition			
Other adverse effects				
Product:				
Additional ecological : information	There is no data available for this product.			
SECTION 13. DISPOSAL CONSIDERATIONS				
Disposal methods				

Dispusal methous		
RCRA - Resource Conservation and Recovery Authorization Act	:	This product, if discarded as sold, is not a Federal RCRA hazardous waste.
Waste Code	:	NONE
Waste from residues	:	Small quantities may be treated in aerobic wastewater treatment systems. Larger quantities may be incinerated or landfilled after solidification in permitted systems.
Contaminated packaging	:	Packaging that cannot be cleaned should be disposed of as product waste

## **SECTION 14. TRANSPORT INFORMATION**

DOT	not restricted
ΙΑΤΑ	not restricted
IMDG	not restricted

## **SECTION 15. REGULATORY INFORMATION**

### **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 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Combustible dust

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### **SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### **Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

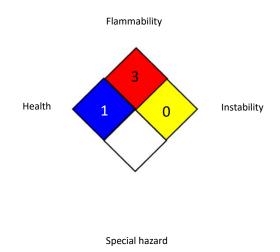
## The components of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

## **SECTION 16. OTHER INFORMATION**

### Further information

NFPA 704:



## Full text of other abbreviations



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AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials: bw - Body weight: CERCLA - Comprehensive Environmental Response. Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada): ECx - Concentration associated with x% response: EHS -Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate: NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

For additional information, contact Product Stewardship.

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This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application. NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE. Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance



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with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.

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