

Substance key: 000000558133

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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: LICOCARE RBW 300 FL VITA

Material number: 280604

Chemical family: partially saponified natural wax

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Combustible dust

GHS label elements

Signal word : Warning

Hazard statements : May form combustible dust concentrations in air.

Precautionary statements : **Prevention:**
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 : partially saponified natural wax

CAS-No. : Not Assigned

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Components

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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.
- 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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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- 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
Avoid dust formation.
Take measures to prevent the build up of electrostatic charge.
Risk of dust explosion.
Treat recovered material as described in the section "Disposal considerations".

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 may form explosive mixture in air.
Electrical equipment should be protected to the appropriate standard.
- 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.

- Engineering measures** : Use adequate exhaust ventilation and/or dust collection to keep dust levels below exposure limits.

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Personal protective equipment

- 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 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 : light yellow
- Odour : not specified
- Odour Threshold : not determined
- pH : 6.53 (73 °F / 23 °C)
Concentration: < 1 g/l
- Melting point : 176 °F / 80 °C
Method: DSC
- Drop point : ca. 214 °F / 101 °C
Method: DIN/ISO 2176
- Boiling point : Decomposition: Decomposes below the boiling point.
Method: DSC
Decomposes below the boiling point.
- Flash point : Not applicable
- Evaporation rate : not determined
- Flammability (solid, gas) : does not ignite
Method: Regulation (EC) No. 440/2008, Annex, A.10

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Self-ignition	:	Method: Expert judgement The substance or mixture is not classified as self heating.
Burning number	:	not determined
Upper explosion limit / upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapour pressure	:	< 0.01 Pa (68 °F / 20 °C) Method: Regulation (EC) No. 440/2008, Annex, A.4
Relative vapour density	:	not determined
Density	:	ca. 0.99 g/cm ³ (73 °F / 23 °C) Method: ISO 1183
Solubility(ies)		
Water solubility	:	< 1 g/l Method: OECD Test Guideline 105
Solubility in other solvents	:	not tested.
Partition coefficient: n-octanol/water	:	log Pow: <= 0.6 Method: OECD Test Guideline 107 GLP: yes
Decomposition temperature	:	738 °F / 392 °C Method: DSC
Viscosity		
Viscosity, dynamic	:	<= 100 mPa.s (248 °F / 120 °C) Method: DIN 53019
Viscosity, kinematic	:	no data available
Explosive properties	:	Not explosive Method: Expert judgement GLP: no
Oxidizing properties	:	The substance or mixture is not classified as oxidizing. Method: Expert judgement The product does not contain organic peroxide-groups which result from either the manufacturing process or from added ingredients.
Surface tension	:	Based on chemical structure, no surface activity is expected or can be predicted.
Dust deflagration index (Kst)	:	115 m.b./s

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Dust explosion class	:	St1
Minimum ignition energy	:	3 - 10 mJ Method: VDI 2263 "Dust fires and explosions; Danger, Evaluation, Protection measures" with inductive electrical resistance 10 - 30 mJ Method: VDI 2263 "Dust fires and explosions; Danger, Evaluation, Protection measures" without inductive electrical resistance
Particle size	:	not tested.
Particle Size Distribution	:	D50 = 111 µm

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	The substance or mixture does not emit flammable gases in contact with water. Not corrosive to metals
Conditions to avoid	:	None known.
Incompatible materials	:	no data available
Hazardous decomposition products	:	When handled and stored appropriately, no dangerous decomposition products are known

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Eye contact
Skin contact
Inhalation
Ingestion

Acute toxicity

Not classified due to lack of data.

Product:

Acute oral toxicity	:	LD50 (Rat, female): > 5,000 mg/kg Method: OECD Test Guideline 423
Acute inhalation toxicity	:	Remarks: no data available

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Acute dermal toxicity : Remarks: no data available

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Product:

Species : human skin
Method : OECD Test Guideline 439
Result : No skin irritation
GLP : yes

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Product:

Species : rabbit eye
Result : No eye irritation
Method : OECD Test Guideline 405
GLP : yes

Species : cattle
Result : No eye irritation
Method : OECD Test Guideline 437

Respiratory or skin sensitisation**Skin sensitisation**

Based on available data, the classification criteria are not met.

Respiratory sensitisation

Not classified due to lack of data.

Product:

Test Type : Local lymph node assay (LLNA)
Species : Mouse
Method : OECD Test Guideline 429
Result : Not a skin sensitizer.

Germ cell mutagenicity

Not classified due to lack of data.

Product:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

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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

Test Type: In vitro mammalian cell gene mutation test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: oral (gavage)
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Carcinogenicity

Not classified due to lack of data.

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

Not classified due to lack of data.

Product:

Effects on fertility : Test Type: reproductive and developmental toxicity study
Species: Rat, male and female
Strain: Sprague-Dawley
Application Route: oral (gavage)
Dose: 100, 300, 1000 mg/kg b/w
General Toxicity - Parent: NOAEL: > 1,000 mg/kg body weight
General Toxicity F1: > 1,000 mg/kg body weight
Method: OECD Test Guideline 421
GLP: yes

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

Repeated dose toxicity**Product:**

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Species : Rat, male and female
NOAEL : 1,000 mg/kg
Application Route : oral (gavage)
Exposure time : 90 d
Dose : 100, 300, 1000 mg/kg body weight
Method : OECD Test Guideline 408

Aspiration toxicity

Not classified due to lack of data.

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 : LC50 (Gobiocypris rarus (rare gudgeon)): > 100 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
GLP: yes
Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: semi-static test
Method: OECD Test Guideline 202
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to algae/aquatic plants : NOEC (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

EC10 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l
End point: Growth rate
Exposure time: 72 h

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Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to fish (Chronic toxicity) : NOEC: 100 mg/l
Exposure time: 34 d
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 15 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
Remarks: no data available

Toxicity to microorganisms : NOEC (activated sludge): $\geq 1,000$ mg/l
Test Type: Respiration inhibition
Method: OECD Test Guideline 209
GLP: yes

Toxicity to soil dwelling organisms : Test Type: artificial soil
NOEC (Eisenia fetida (earthworms)): 1,000 mg/kg
Exposure time: 14 d
Method: OECD Test Guideline 207
GLP: yes

Persistence and degradability

Product:

Biodegradability : Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 71.1 % (Carbon dioxide (CO₂))
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes
Remarks: The 10 day time window criterion is fulfilled.

Bioaccumulative potential

no data available

Mobility in soil

Product:

Distribution among environmental compartments : Remarks: Not applicable

Other adverse effects

no data available

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SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

- RCRA - Resource Conservation and Recovery Act
Waste Code : This product, if discarded as sold, is not a Federal RCRA hazardous waste.
- Waste from residues : 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
- IATA 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

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 SOCM 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.

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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

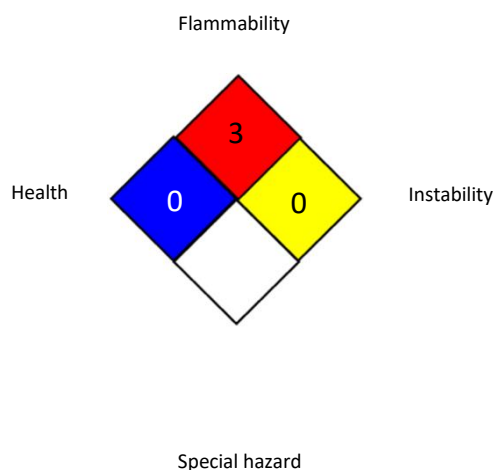
The components of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



Full text of other abbreviations

AllC - 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

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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

On the basis of an extensive test program, which had to be submitted to the competent authority on the occasion of the Notification of the substance in the European Community, this product was found to be toxicologically not dangerous within the meaning of the EC Directives.

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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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 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.