

CERIDUST 3716

Page 1

Substance key: 000000487300

Revision Date: 01/09/2019

Version : 3 - 1 / USA

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SECTION 1. IDENTIFICATION

| | |
|---------------------------------------|---|
| Identification of the company: | Clariant Plastics & Coating USA LLC 4000 Monroe Road Charlotte, NC, 28205 Telephone No.: +1 704 331 7000 |
| | Information of the substance/preparation: Product Stewardship, +1-704-331-7710 |
| | Emergency tel. number: +1 800-424-9300 CHEMTREC |

Trade name: CERIDUST 3716**Material number:** 261053**Primary product use:** Additive**Chemical family:** Polyethylene wax**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with 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

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Substance name : Polyethylene wax

Hazardous components

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

CERIDUST 3716

Page 2

Substance key: 000000487300

Revision Date: 01/09/2019

Version : 3 - 1 / USA

Date of printing :08/08/2019

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 with soap and water. Contact physician if irritation or other symptoms occur. If hot wax strikes skin, drench or immerse the area in water to assist cooling. Do not remove wax from a burn after it cools. Consult a physician.
- 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 swallowed, DO NOT induce vomiting.
Do not give anything to drink.
Call a physician immediately.
- 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 : Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full protective clothing.
- Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

CERIDUST 3716

Page 3

Substance key: 000000487300

Revision Date: 01/09/2019

Version : 3 - 1 / USA

Date of printing :08/08/2019

- 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 : Keep away sources of ignition.

Take measures to prevent the build up of electrostatic charge.

Observe the general rules of industrial fire protection

The product is a fine dust. Consequently, the product and/or its packaging material can become electrostatically charged during emptying of the package, or processing of the product. Therefore, when handling such materials in areas where the existence of an explosive atmosphere cannot be completely excluded, it is necessary to take strict precautions to prevent explosions caused by electrostatic charging or discharging. This requirement applies also to the use or processing of products which are themselves not flammable. The regulations and references of the German BG Guideline 132 on the avoidance of danger of ignition due to electrostatic charges, and those of national regulations of other countries must be considered. The actual measures taken should depend on the processing operations, the conditions of the surrounding area, and the accepted safety procedures of the plant handling the product.

- 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.

- Technical measures/Precautions : 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** : Local ventilation recommended - mechanical ventilation may

Substance key: 000000487300

Revision Date: 01/09/2019

Version : 3 - 1 / USA

Date of printing :08/08/2019

be used.

Personal protective equipment

- Respiratory protection : Use NIOSH/MSHA approved respirators following manufacturer's recommendations where dust or fume may be generated.
- Hand protection
Remarks : Nitrile rubber gloves.
- Eye protection : Safety glasses or chemical splash goggles.
- Skin and body protection : Wear suitable protective equipment.
- Protective measures : When working with hot material, avoid contact with skin.
- 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 : fine powder
- Colour : white
- Odour : not specified
- Odour Threshold : not determined
- pH : not determined
- Drop point : approx. 125 °C
Method: DIN/ISO 2176
- Flash point : Not applicable
- Evaporation rate : not determined
- Flammability (solid, gas) : The product is not flammable.
Method: EC/440/2008, A.10
- Self-ignition : Method: Expert judgement
The substance or mixture is not classified as pyrophoric. The substance or mixture is not classified as self heating.
- Burning number : 2 (20 °C)
Method: VDI 2263, ESCIS, Vol. 1
Short flaring up without spreading

Substance key: 000000487300

Revision Date: 01/09/2019

Version : 3 - 1 / USA

Date of printing :08/08/2019

3 (20 °C)

Method: VDI 2263, ESCIS: Volume 1, with the addition of 20% SiO₂. VDI is The Union of German Engineers. ESCIS is The Safety Commission of the Swiss Chemical Industry
Local combustion without spreading

2 (100 °C)

Method: VDI 2263, ESCIS, Vol. 1
Short flaring up without spreading

2 (100 °C)

Method: VDI 2263, ESCIS: Volume 1, with the addition of 20% SiO₂. VDI is The Union of German Engineers. ESCIS is The Safety Commission of the Swiss Chemical Industry
Short flaring up without spreading

Upper explosion limit / upper flammability limit : not determined

Lower explosion limit / Lower flammability limit : not determined

Vapour pressure : < 0.1 hPa (150 °C)

Relative vapour density : not determined

Solubility(ies)

Water solubility : insoluble (20 °C)

Solubility in other solvents : not determined

Partition coefficient: n-octanol/water : not determined

Auto-ignition temperature : 290 °C

Decomposition temperature : No decomposition if used as directed.

Self-Accelerating decomposition temperature (SADT) : > 75 °C

Viscosity

Viscosity, dynamic : not determined

Viscosity, kinematic : no data available

Explosive properties : Not explosive
Method: Expert judgement

Oxidizing properties : The substance or mixture is not classified as oxidizing.
Method: Expert judgement
GLP: no

CERIDUST 3716

Page 6

Substance key: 000000487300

Revision Date: 01/09/2019

Version : 3 - 1 / USA

Date of printing :08/08/2019

| | | |
|-------------------------------|---|--|
| | | The product does not contain organic peroxide-groups which result from either the manufacturing process or from added ingredients. |
| Surface tension | : | Not applicable |
| Dust deflagration index (Kst) | : | 174 m.b./s |
| Dust explosion class | : | ST1 Capable of dust explosion |
| Minimum ignition energy | : | > 1 mJ Method: modified Hartmann tube with inductive electrical resistance |
| Particle size | : | approximately 8.5 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 | : | Risk of dust explosion. |
| Conditions to avoid | : | None |
| Incompatible materials | : | none |
| Hazardous decomposition products | : | No hazardous decomposition products if stored and handled as prescribed |

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

Eye contact
Skin contact
Inhalation

Acute toxicity**Product:**

| | | |
|---------------------------|---|--|
| Acute oral toxicity | : | LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 423 GLP: yes |
| Acute inhalation toxicity | : | Remarks: no data available |
| Acute dermal toxicity | : | Remarks: no data available |

Substance key: 000000487300

Revision Date: 01/09/2019

Version : 3 - 1 / USA

Date of printing :08/08/2019

Skin corrosion/irritation**Product:**

Species: Rabbit

Assessment: non-irritant

Result: No skin irritation

Serious eye damage/eye irritation**Product:**

Species: rabbit eye

Result: No eye irritation

Assessment: non-irritant

Respiratory or skin sensitisation**Product:**

Remarks: no data available

Germ cell mutagenicity**Product:**

Germ cell mutagenicity - Assessment : No information available.

Carcinogenicity**Product:**

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:**

Reproductive toxicity - Assessment : No information available.

Repeated dose toxicity**Product:**

Remarks: This information is not available.

Substance key: 000000487300

Revision Date: 01/09/2019

Version : 3 - 1 / USA

Date of printing :08/08/2019

Experience with human exposure**Product:**

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

Further information**Product:**

Remarks: Data are based on products of similar structure and/or similar composition
According to experience, the product is considered to be harmless to health if used in the correct manner

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish :
Remarks: no data available

Toxicity to daphnia and other :
aquatic invertebrates Remarks: no data available

Toxicity to algae :
Remarks: no data available

Toxicity to microorganisms : Remarks: no data available

Persistence and degradability**Product:**

Biodegradability : Remarks: This property is substance-specific and therefore cannot be given for the preparation.

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: Does not bioaccumulate.

Mobility in soil

no data available

Other adverse effects**Product:**

Environmental fate and :
pathways Remarks: no data available

Additional ecological : Product is insoluble in water

CERIDUST 3716

Page 9

Substance key: 000000487300

Revision Date: 01/09/2019

Version : 3 - 1 / USA

Date of printing :08/08/2019

information

Harmful effects to fish and bacteria: not harmful
May be separated mechanically in waste water plants.

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 : Dispose of spilled or waste product, contaminated soil and other contaminated materials in licensed landfill or treatment 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 INFORMATION

- DOT : not restricted
- IATA : 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 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 Water Act

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

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

CERIDUST 3716

Page 10

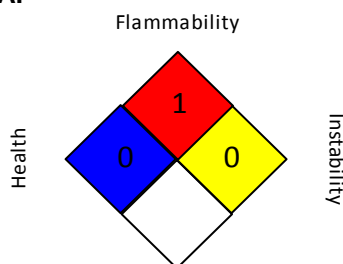
Substance key: 000000487300

Revision Date: 01/09/2019

Version : 3 - 1 / USA

Date of printing :08/08/2019

TSCA : On TSCA Inventory, All components are compliant with the TSCA Inventory Notification (Active) rule.

SECTION 16. OTHER INFORMATION**Further information****NFPA:**

Special hazard.

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; 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-

Substance key: 000000487300

Revision Date: 01/09/2019

Version : 3 - 1 / USA

Date of printing :08/08/2019

Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance 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

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

Revision Date : 01/09/2019

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