

# CRAYVALLAC® ULTRA

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Company

Arkema Inc.  
900 First Avenue  
King of Prussia, Pennsylvania 19406

Arkema Coating Resins

**Customer Service Telephone Number:** (877) 331-6696  
(Monday through Friday, 8:00 AM to 5:00 PM EST)

### Emergency Information

**Transportation:** CHEMTREC: (800) 424-9300  
(24 hrs., 7 days a week)  
**Medical:** Rocky Mountain Poison Center: (866) 767-5089  
(24 hrs., 7 days a week)

### Product Information

**Product name:** CRAYVALLAC® ULTRA  
**Synonyms:** Not available  
**Molecular formula:** Complex mixture  
**Chemical family:** Micronized wax  
**Product use:** Additive for :Paints, Coatings, Inks, Adhesives

## SECTION 2: HAZARDS IDENTIFICATION

### Emergency Overview

**Color:** white  
**Physical state:** solid  
**Form:** powder  
**Odor:** odourless

### \*Classification of the substance or mixture:

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)  
Inhalation: Acute toxicity, Category 4, H332  
Specific target organ toxicity - repeated exposure, Category 2, Lungs, H373  
Chronic aquatic toxicity, Category 4, H413

\*For the full text of the H-Statements mentioned in this Section, see Section 16.

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**GHS-Labeling**

Hazard pictograms:



Signal word:

**Warning****Hazard statements:**

H332 : Harmful if inhaled.

H373 : May cause damage to organs through prolonged or repeated exposure.

H413 : May cause long lasting harmful effects to aquatic life.

**Supplemental Hazard Statements:**

May form combustible dust concentrations in air.

Specific target organ toxicity - repeated exposure:  
lungs.**Precautionary statements:****Prevention:**

P260 : Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P271 : Use only outdoors or in a well-ventilated area.

P273 : Avoid release to the environment.

**Response:**

P304 + P340 : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P314 : Get medical advice/ attention if you feel unwell.

**Disposal:**

P501 : Dispose of contents or container to an approved waste disposal plant.

**Supplemental information:****Potential Health Effects:**

Mechanical irritation effects from dust exposure are possible at ambient temperature.

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Wt/Wt	GHS Classification**
Proprietary amide wax	277168*	>= 80 %	H332, H373, H413
Proprietary polymer	Proprietary*	>= 5 - < 10 %	Not classified

\*The specific chemical identity is withheld because it is trade secret information of Arkema Inc.

\*\*For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of necessary first-aid measures:

#### **Inhalation:**

If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

#### **Skin:**

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse.

#### **Eyes:**

Immediately flush eye(s) with plenty of water.

#### **Ingestion:**

If swallowed, DO NOT induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.

### 4.2. Most important symptoms/effects, acute and delayed:

For most important symptoms and effects (acute and delayed), see Section 2 (Hazard Statements and Supplemental Information if applicable) and Section 11 (Toxicology Information) of this SDS.

### 4.3. Indication of any immediate medical attention and special treatment needed:

Unless otherwise noted in Notes to Physician, no specific treatment noted; treat symptomatically.

**SECTION 5: FIREFIGHTING MEASURES****Extinguishing media (suitable):**

Water spray

**Extinguishing media (unsuitable):**

High volume water jet

**Protective equipment:**

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand / NIOSH approved or equivalent).

**Further firefighting advice:**

Do not use a solid stream of water.

A solid stream of water can cause a dust explosion.

Do not allow run-off from fire fighting to enter drains or water courses.

Fire fighting equipment should be thoroughly decontaminated after use.

**Fire and explosion hazards:**

When burned, the following hazardous products of combustion can occur:

Carbon oxides

Nitrogen oxides

Hazardous organic compounds

Dust clouds generated during handling and/or storage can form explosive mixtures with air. Dust explosion characteristics vary with the particle size, particle shape, moisture content, contaminants, and other variables.

Note: Check that all equipment is properly grounded and installed to satisfy electrical classification requirements. As with any dry material, pouring this material or allowing it to free-fall or to be conveyed through chutes or pipes can accumulate and generate electrostatic sparks, potentially causing ignition of the material itself, or of any flammable materials which may come into contact with the material or its container.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, Emergency procedures, Methods and materials for containment/clean-up:**

Prevent further leakage or spillage if you can do so without risk. Evacuate area of all unnecessary personnel. Ventilate the area. Eliminate all ignition sources. Avoid dust formation and dispersal of dust in the air. Wet down (dampen) the spilled material with water. Sweep or scoop up using non-sparking tools and place into suitable properly labeled containers for prompt disposal. The sweepings should be wetted down further with water. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Implement workplace practices such that dusts are not allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

**Protective equipment:**

Appropriate personal protective equipment is set forth in Section 8.

**SECTION 7: HANDLING AND STORAGE****Handling****General information on handling:**

Do not taste or swallow.

Avoid breathing dust.

Avoid prolonged contact with eyes, skin and clothing.

Keep away from heat, sparks and flames.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Avoid creating dust in handling, transfer or clean up.

Prevent dust accumulation.

Implement routine housekeeping practices to ensure that dusts do not accumulate on surfaces.

Check that all equipment is properly grounded and installed to satisfy electrical classification requirements.

Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations.

Container hazardous when empty.

Follow label warnings even after container is emptied.

RESIDUAL DUSTS MAY EXPLODE ON IGNITION.

DO NOT CUT, DRILL, GRIND, OR WELD ON OR NEAR THIS CONTAINER.

Improper disposal or reuse of this container may be dangerous and/or illegal.

Emptied container retains product residue.

**Storage****General information on storage conditions:**

Keep in a dry, cool place. Store in closed containers, in a secure area to prevent container damage and subsequent spillage. Store in well ventilated area away from heat and sources of ignition such as flame, sparks and static electricity. Ensure that all storage and handling equipment is properly grounded and installed to satisfy electrical classification requirements. Static electricity may accumulate when transferring material. All metal and groundable storage containers, including but not limited to drums, cylinders, Returnable Intermodal Bulk Containers (RIBCs) and Class C Flexible Intermodal Bulk Containers (FIBCs) must be bonded and grounded during filling and emptying operations. Observe all federal, state and local regulations and National Fire Protection Association (NFPA) Codes, which pertain to the specific local conditions of storage and use, including NFPA 654.

**Storage stability – Remarks:**

Stable under recommended storage conditions.

**Storage incompatibility – General:**

Store separate from:

Strong oxidizing agents

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****Airborne Exposure Guidelines:****Particles Not Otherwise Specified / Nuisance Dust (Proprietary)**

## US. ACGIH Threshold Limit Values

Form:	Respirable particles.
Time weighted average	3 mg/m <sup>3</sup>
Form:	Inhalable particles.
Time weighted average	10 mg/m <sup>3</sup>

## US. OSHA Table Z-3 (29 CFR 1910.1000)

Form:	Respirable fraction.
Time weighted average	15millions of particles per cubic foot of air

## US. OSHA Table Z-3 (29 CFR 1910.1000)

Form:	Total dust
Time weighted average	50millions of particles per cubic foot of air

## US. OSHA Table Z-3 (29 CFR 1910.1000)

Form:	Respirable fraction.
Time weighted average	5 mg/m <sup>3</sup>

## US. OSHA Table Z-3 (29 CFR 1910.1000)

Form:	Total dust
Time weighted average	15 mg/m <sup>3</sup>

Only those components with exposure limits are printed in this section. Limits with skin contact designation above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required. Limits with a sensitizer designation above mean that exposure to this material may cause allergic reactions.

**Engineering controls:**

Investigate engineering techniques to reduce exposures below airborne exposure limits or to otherwise reduce exposures. Provide ventilation if necessary to minimize exposures or to control exposure levels to below airborne exposure limits (if applicable see above). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

Check that all dust control equipment such as local exhaust ventilation, material transport systems, and air-

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material separation devices involved in handling this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Isolation devices may be appropriate to prevent propagation from one unit to another. Ensure that dust-handling systems are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Consult ACGIH ventilation manual, NFPA Standard 91 and NFPA Standard 654 for design of exhaust system and safe handling.

**Respiratory protection:**

Avoid breathing dust. Where airborne exposure is likely or airborne exposure limits are exceeded (if applicable, see above), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. Consult respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure or where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

**Skin protection:**

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Rinse immediately if skin is contaminated. Wash contaminated clothing and clean protective equipment before reuse. Wash thoroughly after handling.

**Eye protection:**

Where eye contact may be likely, wear chemical goggles and have eye flushing equipment available.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Color:</b>	white
<b>Physical state:</b>	solid
<b>Form:</b>	powder
<b>Odor:</b>	odourless
<b>Odor threshold:</b>	No data available
<b>Flash point</b>	> 149 °F (65 °C) (Method: Seta Flash Method)
<b>Auto-ignition temperature:</b>	> 842 °F (> 450 °C)
<b>Lower flammable limit (LFL):</b>	No data available
<b>Upper flammable limit (UFL):</b>	No data available
<b>pH:</b>	No data available

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Density:	1.02 g/cm <sup>3</sup> (68 °F (20 °C))
Specific Gravity (Relative density):	1.02 (68 °F (20 °C))
Vapor pressure:	19 mmHg (Method: OECD Test Guideline 104)
Boiling point/boiling range:	No data available
Melting point/range:	250 °F (121 °C)
Freezing point:	No data available
Evaporation rate:	No data available
Solubility in water:	insoluble
Solubility in other solvents: [qualitative and quantitative]	Soluble in most organic solvents
Viscosity, dynamic:	No data available
Oil/water partition coefficient:	No data available.
Thermal decomposition:	No data available
Flammability:	See GHS Classification in Section 2 if applicable

**SECTION 10: STABILITY AND REACTIVITY****Stability:**

This material is chemically stable under normal and anticipated storage, handling and processing conditions.

**Hazardous reactions:**

Hazardous polymerization does not occur.

**Materials to avoid:**

Strong oxidizing agents

**Conditions / hazards to avoid:**

Keep away from heat and sources of ignition.

**Hazardous decomposition products:**

Thermal decomposition giving flammable and toxic products :

Carbon oxides

Nitrogen oxides

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Hazardous organic compounds

**SECTION 11: TOXICOLOGICAL INFORMATION**

Data on this material and/or its components are summarized below.

**Data for CRAYVALLAC® ULTRA****Acute toxicity****Inhalation:**

Harmful if inhaled. 4 h Acute toxicity estimate 1.58 mg/l. (dust/mist)

**Data for Proprietary amide wax (Proprietary)****Acute toxicity****Oral:**

No deaths occurred. (rat) LD<sub>0</sub> > 2,000 mg/kg.

**Dermal:**

No deaths occurred. (rat) LD<sub>0</sub> > 2,000 mg/kg.

**Inhalation:**

Harmful if inhaled. (rat) 4 h LC<sub>50</sub> = 3.56 mg/l. (dust/mist)

**Skin Irritation:**

Practically non-irritating. (rabbit) (4 h)

**Eye Irritation:**

Not irritating. (rabbit)

**Skin Sensitization:**

Not a sensitizer. Guinea pig maximization test. No skin allergy was observed.

**Repeated dose toxicity**

Repeated oral administration to rat / No adverse systemic effects reported.

Subchronic inhalation administration to rat / affected organ(s): lung / signs: increased organ weight, changes in organ structure or function / (similar to response for inert insoluble particulates)

**Specific target organ toxicity - repeated exposure:**

May cause damage to organs through prolonged or repeated exposure. (Lungs)

**Genotoxicity****Assessment in Vitro:**

No genetic changes were observed in laboratory tests using: bacteria, animal cells, human cells

**Genotoxicity**

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**Assessment in Vivo:**

No genetic changes were observed in a laboratory test using: rats

**Developmental toxicity**

Exposure during pregnancy. Oral (rat) / No birth defects were observed.

**Reproductive effects**

Reproductive/Developmental Effects Screening Assay. Oral (rat) / No toxicity to reproduction.

**Data for Proprietary polymer (Proprietary)****Acute toxicity****Oral:**

Practically nontoxic. LD50 > 5,000 mg/kg.

**Dermal:**

Practically nontoxic. LD50 > 5,000 mg/kg.

**Skin Irritation:**

Causes mild skin irritation.

**Eye Irritation:**

Causes mild eye irritation.

**Other information**

The information presented is from representative materials with this Chemical Abstract Service (CAS) Registry number. The results vary depending on the size and composition of the test substance.

**SECTION 12: ECOLOGICAL INFORMATION****Chemical Fate and Pathway**

Data on this material and/or its components are summarized below.

**Data for Proprietary amide wax (Proprietary)****Biodegradation:**

Not readily biodegradable. (29 d) biodegradation 9 %

**Octanol Water Partition Coefficient:**

log Pow: = 6.01, at 68 °F (20 °C)

**Ecotoxicology**

Data on this material and/or its components are summarized below.

**Data for Proprietary amide wax (Proprietary)****Aquatic toxicity data:**

No effect up to the limit of solubility. Oncorhynchus mykiss (rainbow trout) 96 h LC50 > 100 mg/l (Nominal concentration, Water accommodated fraction was tested.)

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**Aquatic invertebrates:**

No effect up to the limit of solubility. Daphnia magna (Water flea) 48 h EC50 > 100 mg/l (Nominal concentration, Water accommodated fraction was tested.)

**Algae:**

No effect up to the limit of solubility. Pseudokirchneriella subcapitata (green algae) 72 h ErC50 > 100 mg/l (Nominal concentration, Water accommodated fraction was tested.)

**Microorganisms:**

Respiration inhibition / Activated sludge 3 h EC50 > 100 mg/l (Nominal concentration)

**Chronic toxicity to aquatic invertebrates:**

No effect up to the limit of solubility. Daphnia magna (Water flea) 21 d NOELR >= 50 mg/l (Nominal concentration Water accommodated fraction was tested.)

**Chronic toxicity to aquatic plants:**

No effect up to the limit of solubility. Pseudokirchneriella subcapitata (green algae) 72 h NOEC r = 100 mg/l

**SECTION 13: DISPOSAL CONSIDERATIONS****Waste disposal:**

Disposal via incineration is recommended. Dispose of in accordance with federal, state and local regulations. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

Take appropriate measures to prevent release to the environment.

**SECTION 14: TRANSPORT INFORMATION**

**US Department of Transportation (DOT):** not regulated

**International Maritime Dangerous Goods Code (IMDG):** not regulated

**SECTION 15: REGULATORY INFORMATION****Chemical Inventory Status**

US. Toxic Substances Control Act	TSCA	The components of this product are all on the Active TSCA Inventory.
Canadian Domestic Substances List (DSL)	DSL	All components of this product are on the Canadian DSL
China. Inventory of Existing Chemical Substances in China (IECSC)	IECSC (CN)	All components of this product are listed or exempted

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Japan. ENCS - Existing and New Chemical Substances Inventory	ENCS (JP)	All components of this product are listed or exempted
Japan. ISHL - Inventory of Chemical Substances	ISHL (JP)	All components of this product are listed or exempted
Korea. Korean Existing Chemicals Inventory (KECI)	KECI (KR)	All components of this product are listed or exempted
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	PICCS (PH)	All components of this product are listed or exempted
Australian Inventory of Industrial Chemicals	AU AIICL	All components of this product are listed or exempted
Taiwan Chemical Substance Inventory (TCSI)	TCSI	All components of this product are listed or exempted

**United States – Federal Regulations****SARA Title III – Section 302 Extremely Hazardous Chemicals:**

The components in this product are either not SARA Section 302 regulated or regulated but present in negligible concentrations.

**SARA Title III - Section 311/312 Hazard Categories:**

Acute Health Hazard, Chronic Health Hazard, Fire Hazard

**SARA Title III – Section 313 Toxic Chemicals:**

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.

**Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantity (RQ):**

The components in this product are either not CERCLA regulated, regulated but present in negligible concentrations, or regulated with no assigned reportable quantity.

**United States – State Regulations****California Prop. 65**

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive defects.

**SECTION 16: OTHER INFORMATION**

## SAFETY DATA SHEET



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### Full text of H-Statements referred to under sections 2 and 3.

H332 Harmful if inhaled.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H413 May cause long lasting harmful effects to aquatic life.

### Miscellaneous:

Other information: Refer to National Fire Protection Association (NFPA) Code 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

### Latest Revision(s):

Reference number: 200001071  
Date of Revision: 05/17/2023  
Date Printed: 05/18/2023

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The Company adheres to a strict policy that applies to the use of any of its products in medical device applications. This policy can be found at <https://www.arkema.com/global/en/social-responsibility/innovation-and-sustainable-solutions/responsible-product-management/medical-device-policy/> which is incorporated herein by reference and made a part hereof. Except as expressly authorized, the Company (i) has designated specific medical grade compositions for products used in medical device applications and Company products not so designated are not authorized for use in medical device applications and (ii) strictly prohibits the use of any of its products in medical device applications that are implanted in the body or in contact with bodily fluids or tissues for greater than 30 days. The Company does not design, manufacture and/or directly sell any medical devices. The Company does not co-design, or offer assistance to any purchaser of its products, in their design, manufacture and/or sale of products for medical devices. It is the sole responsibility of the manufacturer of medical devices to determine the suitability of all raw material, products and components, including any medical grade products, in order to ensure that the medical device is safe for end-use and complies with all applicable legal and regulatory requirements and to conduct all necessary tests and inspections.

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Product code: 800305

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