

## SAFETY DATA SHEET

accordance with Annex II of Regulation (EC) No 1907/2006 and its amendment(s)

**Product:** **CRAYVALLAC® MT** Page: 1 / 8

SDS No.: 210479-001 (Version 10.0) Date 17.03.2016 (Cancel and replace : 16.03.2016)

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Identification of the product

Identification of the mixture: CRAYVALLAC® MT

1.2. Relevant identified uses of the substance or mixture and uses advised against

## Use of the Substance/Mixture :

Sector of use :	Product category :
Formulation and (re)packing of substances and mixtures <b>SU 3:</b> Industrial uses: Uses of substances as such or in preparations at industrial sites <b>SU 10:</b> Formulation [mixing] of preparations and/ or re-packaging (excluding alloys)	: Manufacture of ; <b>PC1:</b> Adhesives, sealants, <b>PC9a:</b> Coatings and paints, thinners, paint removers, <b>PC9b:</b> Fillers, putties, plasters, modelling clay, <b>PC18:</b> Ink and toners, <b>PC38:</b> Welding and soldering products (with flux coatings or flux cores.), flux products
Use in coatings (industrial) <b>SU 3:</b> Industrial uses: Uses of substances as such or in preparations at industrial sites	<b>PC1:</b> Adhesives, sealants, <b>PC9a:</b> Coatings and paints, thinners, paint removers, <b>PC9b:</b> Fillers, putties, plasters, modelling clay, <b>PC18:</b> Ink and toners, <b>PC38:</b> Welding and soldering products (with flux coatings or flux cores.), flux products
Use in coatings (professional) <b>SU 22:</b> Professional uses: Public domain (administration, education, entertainment, services, craftsmen)	<b>PC1:</b> Adhesives, sealants, <b>PC9a:</b> Coatings and paints, thinners, paint removers, <b>PC9b:</b> Fillers, putties, plasters, modelling clay

1.3. Details of the supplier of the safety data sheet

Supplier	Arkema Coating resins 420 rue d'Estienne d'Orves 92705 Colombes Cedex, FRANCE Telephone: +33 1 49 00 80 80 Telefax: +33 1 49 00 83 96 http://www.arkema.com pars-drp-fds@arkema.com
E-mail address	
E-mail address : Exposure scenario	Arkema-Reach-Uses-Coating-Resins@arkema.com

1.4. Emergency telephone number

**+ 33 1 49 00 77 77**  
**European emergency phone number: 112**  
**UK: National Chemical Emergency Centre Tel: 01865 407 333**

## 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture**Classification (REGULATION (EC) No 1272/2008):**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2. Label elements**Label elements (REGULATION (EC) No 1272/2008):**

No label necessary for this product.

**Special labelling:**

EUH210 Safety data sheet available on request.  
 EUH208 May produce an allergic reaction.

Contains: Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine.

2.3. Other hazards**Potential health effects:**

Irritation: Possible irritation of respiratory system (by dust inhalation).  
Skin contact: Slightly irritating to skin.  
Eye contact: Risk of eye irritation. (Physical effect of dust)

**Environmental Effects:**

Potentially bioaccumulable

**Physical and chemical hazards:**

Dust may form explosive mixture in air. At high temperature : Thermal decomposition giving toxic products.  
Decomposition products: See chapter 10

**Other:**

Results of PBT and vPvB assessment : Based on the available information, it is not possible to conclude on the hazard potential of this mixture.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures****Chemical nature of the mixture<sup>1</sup>:**

Micronized wax

**Hazardous components (accordance with Annex II of Regulation (EC) No 1907/2006 and its amendment(s)) :**

Chemical Name <sup>1</sup> & REACH Registration Number <sup>2</sup>	EC-No.	CAS-No.	Concentration	Classification REGULATION (EC) No 1272/2008
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine (01-2119979085-27)	309-629-8	100545-48-0	< 25 %	Aquatic Chronic 3; H412 Skin Sens. 1B; H317

<sup>1</sup>: See chapter 14 for Proper Shipping Name

<sup>2</sup>: See the text of the regulation for applicable exceptions or provisions : The transition time according to REACH Regulation, Article 23, is still not expired.

**4. FIRST AID MEASURES****4.1. Description of necessary first-aid measures:****General advice:**

Take off immediately all contaminated clothing (including shoes).

**Inhalation:**

Dust inhalation: Blow nose.  
Move to fresh air. If symptoms persist, call a physician.

**Skin contact:**

Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.

**Eye contact:**

Dusts : Wash well-open eyes immediately, abundantly and thoroughly with water. Remove particles remaining under the eyelids. If irritation persists, consult an ophthalmologist.

**Ingestion:**

In case of problems : Consult a doctor.

**Protection of first-aiders:**

Protective clothing and impermeable gloves. Dusts : In case of insufficient ventilation, wear suitable respiratory equipment.

**4.2. Most important symptoms/effects, acute and delayed:** No data available.**4.3. Indication of immediate medical attention and special treatment needed, if necessary:** No data available.**5. FIREFIGHTING MEASURES****5.1. Extinguishing media****Suitable extinguishing media:**

Foam, carbon dioxide, dry powder extinguishers.

**Unsuitable extinguishing media:**

High volume water jet

**5.2. Special hazards arising from the substance or mixture:**

In the event of fire and/or explosion do not breathe fumes.  
Formation of toxic products through combustion:., Carbon oxides, nitrogen oxides  
Dust may form explosive mixture in air.

**5.3. Advice for firefighters:****Specific methods:**

Keep containers and surroundings cool with water spray. Ensure a system for the rapid emptying of containers. In case of fire nearby, remove the bags.

**Special protective actions for fire-fighters:**

Wear self-contained breathing apparatus and protective suit.

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**6. ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures:**

Evacuate personnel to safe areas. Prohibit all sources of sparks and ignition - Do not smoke. Wear a dust mask and safety glasses/goggles if necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Prohibit contact with skin and eyes and inhalation of dust.

**6.2. Environmental precautions:**

Should not be released into the environment. Do not let product enter drains.

**6.3. Methods and materials for containment and cleaning up:****Recovery:**

Shovel into suitable container for disposal. Sweep up to prevent slipping hazard. No sparking tools should be used. Rinse with water. Recover waste water for processing later.

**Elimination:**

Destroy the product by incineration (in accordance with local and national regulations).

**6.4. Reference to other sections:** None.

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**7. HANDLING AND STORAGE****7.1. Precautions for safe handling:****Technical measures/Precautions:**

Storage and handling precautions applicable to products: Solid. DUST FORMING, forming EXPLOSIVE mixtures with air(In the presence of an ignition source).  
Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Provide showers, eye-baths Provide water supplies near the point of use. Provide electrical earthing of equipment.

**Safe handling advice:**

Avoid dust accumulation in enclosed space. Avoid creating dust. In case of dust formation, wear a dust mask. Avoid charging as a dust shower – risk of product flammability. Prohibit all sources of sparks and ignition - Do not smoke. Take precautionary measures against static discharges. In case of insufficient ventilation, wear suitable respiratory equipment.

**Hygiene measures:**

When using do not eat, drink or smoke. Avoid breathing dust. Prohibit contact with skin and eyes.  
Wash hands after handling. Remove contaminated clothing and protective equipment before entering eating areas.

**7.2. Conditions for safe storage, including any incompatibilities:**

Keep tightly closed in a dry and cool place. Store in original container. Store away from heat and ignition sources. Provide electrical earthing of equipment and electrical equipment usable in explosive atmospheres. The floor of the storage area should be impermeable and contained within a bund.

**Incompatible products:**

Strong oxidizing agents

**Packaging material:**

**Recommended:** Metals

**To be avoided:** Plastic materials

7.3. **Specific end use(s):** None.**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters:****Exposure Limit Values (dust)**

Source	Date	Value type	Value (ppm)	Value (mg/m3)	Remarks
EH40 WEL	12 2011	TWA	–	10	Inhalable dust.
EH40 WEL	12 2011	TWA	–	4	Respirable dust.
ACGIH (US)	02 2012	TWA	–	10	Inhalable particles.
ACGIH (US)	02 2012	TWA	–	3	Respirable particles.

**Exposure Limit Values** Not relevant**Derived No Effect Level (DNEL):** OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE :

End Use	Inhalation	Ingestion	Skin contact
Workers	3,35 mg/m3 (LT, LE)		
Consumers	0,83 mg/m3 (LT)		

LE : Local effects, SE : Systemic effects, LT : Long term, ST : Short term

**Predicted No Effect Concentration:** No data available.**8.2. Exposure controls:****Personal protective equipment:**

Respiratory protection: Respirator must be worn if exposed to dust.  
Recommended Filter type: P2  
In the case of hazardous fumes, wear self contained breathing apparatus.

Hand protection: Protective gloves

Eye/face protection: Safety glasses with side-shields

Skin and body protection: Appropriate protective clothing.  
Safety shoes

**Environmental exposure controls:**

Do not release into the environment.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties****Appearance:**

**Physical state (20°C):** solid

**Form:** powder

**Colour:** off-white

**Odour:** odourless

**Olfactory threshold:** No data available.

**pH:** No data available.

**Melting point/range :** 130 - 140 °C

**Boiling point/boiling range:** No data available.

**Flash point:** Not relevant

**Evaporation rate:** No data available.

**Flammability (solid, gas):**

Flammability: Non flammable product

**Vapour pressure:** No data available.

**Vapour density:** No data available.

**Density:** 1,02 g/cm<sup>3</sup>, at 20 °C

**Water solubility:** insoluble

<b>Water solubility:</b>	OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE : 0,0439 mg/l at 20 °C (OECD Test Guideline 105)
<b>Partition coefficient: n-octanol/water:</b>	OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE : log Kow : >= 5,86 (OECD Test Guideline 117)
<b>Auto-ignition temperature:</b>	380 °C
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity, dynamic:</b>	Not applicable
<b>Explosive properties:</b>	
Explosivity:	In the presence of an ignition source: Dust may form explosive mixture in air.
<b>Oxidizing properties:</b>	Not relevant

**9.2. Other data:**

<b>Solubility in other solvents:</b>	Soluble in most organic solvents
<b>Solid content in the solution:</b>	100 %(m)

**10. STABILITY AND REACTIVITY**

**10.1. Reactivity:** No data available.

**10.2. Chemical stability:**

The product is stable under normal handling and storage conditions.

**10.3. Possibility of hazardous reactions:**

In the presence of an ignition source: Dust may form explosive mixture in air.

**10.4. Conditions to avoid:**

Heat, flames and sparks. Avoid moisture.

**10.5. Incompatible materials to avoid:**

Strong oxidizing agents

**10.6. Hazardous decomposition products:**

Thermal decomposition can lead to release of irritating gases and vapours.  
Formation of toxic products through combustion: Carbon oxides, Nitrogen oxides

**11. TOXICOLOGICAL INFORMATION**

All available data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

**11.1. Information on toxicological effects:****Acute toxicity:**

**Inhalation:** According to its composition, can be considered as : Slightly harmful by inhalation

OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE :

- In animals : breathing difficulties, rapid respiration  
No mortality/4 h/Rat: 5,05 mg/l (Alveolar dust fraction)

**Ingestion:** According to its composition, can be considered as : Slightly harmful by ingestion

OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE :

- In animals : No specific toxic effects  
No mortality/Rat: 2.000 mg/kg (Method: OECD Test Guideline 423)

**Dermal:** According to its composition, can be considered as : Slightly harmful in contact with skin

OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE :

According to its structure :, Slightly harmful in contact with skin

**Local effects ( Corrosion / Irritation / Serious eye damage ):**

**Skin contact:** According to its composition, can be considered as : Non irritating to skin

## OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE :

- In animals : Mild skin irritation (OECD Test Guideline 404, Rabbit, Exposure time: 4 h)  
No skin irritation (EPISKIN Human Skin Model Test, In vitro)

**Eye contact: According to its composition : Possible irritation of eyes**

## OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE :

- In animals : Slightly irritating to eyes (OECD Test Guideline 405, Rabbit)

**Respiratory or skin sensitisation:**

**Inhalation:** No data available.

**Skin contact:**

- In animals (guinea pig): **Not a skin sensitizer**  
No skin allergy was observed (Method : OECD Test Guideline 406 )

**CMR effects :**

**Mutagenicity: According to its composition, can be considered as : Overall not genotoxic**

**In vitro**

## OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE :

- In vitro gene mutation study in bacteria: Inactive (Method: OECD Test Guideline 471)
- In vitro test for chromosomal abnormalities on CHO cells: Inactive (Method: OECD Test Guideline 473)
- In vitro gene mutations test on mammalian cells: Inactive (Method: OECD Test Guideline 476)

**Carcinogenicity: There is no data available for this product.**

**Reproductive toxicity:**

**Fertility: Based on the available data, the substance is not suspected of having reprotoxic potential.**

## OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE :

- In animals : Reproductive/Developmental Effects Screening Assay: Absence of toxic effects on fertility  
NOAEL ( Parental toxicity ) : 1.000 mg/kg bw/day  
NOAEL ( Fertility ) : 1.000 mg/kg bw/day  
NOAEL ( Developmental Toxicity ) : 1000 mg/kg bw/day  
(Method: OECD Test Guideline 421, Rat, By oral route)

**Foetal development: There is no data available for this product.**

**Specific target organ toxicity :**

**Single exposure : Based on the available information, it is not possible to conclude on the hazard potential of this mixture.**

**Inhalation:**

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

## OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE :

- In animals : By oral route: No specific toxic effects  
NOAEL= 1.000 mg/kg (Rat, Subacute)  
By inhalation: Target organs: lung, LOAEL= 0,1 mg/l (Rat, Subacute)

**Aspiration hazard:**

Not applicable

**12. ECOLOGICAL INFORMATION**

Ecotoxicology Assessment: All available data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

**12.1. Acute toxicity :**

**Fish: According to its composition, can be considered as : , Slightly harmful to fish**

## OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE :

LL50, 96 h (Oncorhynchus mykiss) : > 10 mg/l (Method: OECD Test Guideline 203)

:

LC50, 96 h (Danio rerio (zebra fish)) : > 10.000 mg/l (Method: ISO 7346/1)

**Aquatic invertebrates: According to its composition, can be considered as : , Slightly harmful to daphnia**

## OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE :

EL50, 48 h (Daphnia magna (Water flea)) : > 10 mg/l (Method: OECD Test Guideline 202)

EC50, 48 h (Daphnia magna (Water flea)) : > 100 mg/l (Method: Directive 67/548/EEC, Annex V, C.2.)  
(Results obtained on a similar product).

**Aquatic plants:** According to its composition, can be considered as : , Slightly harmful to algae

OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE :

EL50, 72 h (Pseudokirchneriella subcapitata) : > 100 mg/l (Method: OECD Test Guideline 201, Growth inhibition)

EC50, 72 h (Desmodesmus subspicatus (green algae)) : > 100 mg/l (Method: Directive 67/548/EEC, Annex V, C.3., Growth inhibition) (Results obtained on a similar product).

**Microorganisms:**

OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE :

NOEC, 1.440 h (Activated sludge) : 1 mg/l

## 12.2. Persistence and degradability :

**Biodegradation (In water):** Based on the available information, it is not possible to conclude on the hazard potential of this mixture.

OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE :

22 % after 28 d (Method: OECD Test Guideline 301 D)

37 % after 60 d (Method: OECD Test Guideline 301 D)

64 % after 28 d (Method: ISO 10708)

## 12.3. Bioaccumulative potential :

**Bioaccumulation:** According to its composition, can be considered as : , Potentially bioaccumulable.

OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE :

Partition coefficient: n-octanol/water: log Kow : >= 5,86 (Method: OECD Test Guideline 117)

## 12.4. Mobility in soil - Distribution among environmental compartments:

**Absorption / desorption:** Strong adsorption

OCTADECANOIC ACID, 12-HYDROXY-, REACTION PRODUCTS WITH ETHYLENEDIAMINE :

log Koc: 5,63 ( Method: OECD Test Guideline 121 )

log Koc: 10,34 - 11,65 ( Method: calculated )

## 12.5. Results of PBT and vPvB assessment :

Based on the available information, it is not possible to conclude on the hazard potential of this mixture.

**12.6. Other adverse effects:** None known.

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment:

**Disposal of product:** The product should not be allowed to enter drains, water courses or the soil. Dispose of contents/ container to an approved waste disposal plant. In accordance with local and national regulations.

**Disposal of packaging:** Do not release into the environment. Recycle or incinerate at an approved waste disposal site. In accordance with local and national regulations.

## 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

## 15. REGULATORY INFORMATION

Safety data sheets: accordance with Annex II of Regulation (EC) No 1907/2006 and its amendment(s)

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

UK REGULATION

Chip3: Chemical (Hazard Information and Packaging for Supply) Regulations 2002

### 15.2. Chemical Safety Assessment:

Chemical Safety Assessments have been carried out for these substances.

#### INVENTORIES:

EINECS: Conforms to  
TSCA: Conforms to  
DSL: All components of this product are on the Canadian DSL  
IECSC (CN): Conforms to  
ENCS (JP): Conforms to  
KECI (KR): Conforms to  
PICCS (PH): Conforms to  
AICS: Conforms to  
NZIOC: Conforms to

## 16. OTHER INFORMATION

### Full text of H, EUH-phrases referred to under sections 2 and 3

H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

#### Update:

Safety datasheet sections which have been updated:		Type:
2	Classification and labelling	Revisions
11	11. TOXICOLOGICAL INFORMATION	Revisions

#### Thesaurus:

NOAEL : No Observed Adverse Effect Level (NOAEL)  
LOAEL : Lowest Observed Adverse Effect Level (LOAEL)  
bw : Body weight  
food : oral feed  
dw : Dry weight  
vPvB : very Persistent and very Bioaccumulative  
PBT : Persistent, Bioaccumulative and Toxic

This information applies to the PRODUCT AS SUCH and conforming to specifications of ARKEMA. In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear. The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes. The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive. It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product. It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product (usage, storage, cleaning of containers, other processes) the totality of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of environment.

**NB: In this document the numerical separator of the thousands is the "." (point), the decimal separator is "," (comma).**