

**Product:** **CRAYVALLAC® ULTRA**

Page: 1 / 9

SDS No.: 210814-001 (Version 7.2)

Date 05.10.2023 (Cancel and replace : 16.08.2022)

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Identification of the product

Identification of the mixture: CRAYVALLAC® ULTRA

### 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, blending, (re)packing of the substance and its 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>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>SU6a:</b> Manufacture of wood and wood products, <b>SU8:</b> Manufacture of bulk, large scale chemicals (including petroleum products), <b>SU 10:</b> Formulation [mixing] of preparations and/ or re-packaging (excluding alloys), <b>SU11:</b> Manufacture of rubber products, <b>SU12:</b> Manufacture of plastics products, including compounding and conversion, <b>SU16:</b> Manufacture of computer, electronic and optical products, electrical equipment, <b>SU17:</b> General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment, <b>SU18:</b> Manufacture of furniture, <b>SU19:</b> Building and construction work, <b>SU23:</b> Electricity, steam, gas water supply and sewage treatment, <b>SU24:</b> Scientific research and development	<b>PC1:</b> Adhesives, sealants, <b>PC9a:</b> Coatings and paints, thinners, paint removers, <b>PC9b:</b> Fillers, putties, plasters, modelling clay, <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>SU6a:</b> Manufacture of wood and wood products, <b>SU8:</b> Manufacture of bulk, large scale chemicals (including petroleum products), <b>SU 10:</b> Formulation [mixing] of preparations and/ or re-packaging (excluding alloys), <b>SU11:</b> Manufacture of rubber products, <b>SU12:</b> Manufacture of plastics products, including compounding and conversion, <b>SU17:</b> General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment, <b>SU18:</b> Manufacture of furniture, <b>SU19:</b> Building and construction work, <b>SU23:</b> Electricity, steam, gas water supply and sewage treatment, <b>SU24:</b> Scientific research and development	<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 UK Ltd  
Common Road, Stafford, ST16 3EH  
United Kingdom  
E-mail address : pars-drp-fds@arkema.com  
http://www.arkema.com

E-mail address : Exposure scenario arkema-reach-uses.coatings-resins@arkema.com

### 1.4. Emergency telephone number

+ 33 1 49 00 77 77  
European emergency phone number: 112  
+44 20 3807 3798 (CHEMTREC UK - Emergency phone number)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008, as amended for Great Britain):

Inhalation: Acute toxicity, 4, H332  
Specific target organ toxicity - repeated exposure, 2, H373  
Chronic aquatic toxicity, 4, H413

Additional information:

For the full text of the H, EUH-phrases mentioned in this Section, see Section 16.

## 2.2. Label elements

Label elements (REGULATION (EC) No 1272/2008, as amended for Great Britain):

Hazardous components which must be listed on the label:

12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine

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.

Precautionary statements:

**Prevention:**

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

**Response:**

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

P312 : Call a POISON CENTER/doctor if you feel unwell.

## 2.3. Other hazards

**Potential health effects:**

Irritation: Slightly irritating to skin.

Inhalation: Dust inhalation: At high concentrations Risk of irritation of respiratory system Harmful: danger of serious damage to health by prolonged exposure through inhalation.

**Environmental Effects:**

Not readily biodegradable. Potentially bioaccumulable.

**Physical and chemical hazards:**

In the presence of an ignition source: Dust may form explosive mixture in air. Thermal decomposition giving toxic and/or irritating 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.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

**Chemical nature of the mixture<sup>1</sup>:**

The UVCB substance CAS RN 220926-97-6 may be identified by CAS RN 128554-52-9 and RN 55349-01-4 outside of Europe (major constituents).

**Hazardous components (accordance with Annex II of Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758) :**

Chemical name <sup>1</sup> & REACH Registration Number <sup>2</sup>	EC-No.	CAS-No.	Concentration	Classification REGULATION (EC) No 1272/2008, as amended for Great Britain
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine (01-0000017900-73-0000) (N° ANNEX: 616-201-00-7)	432-840-2	220926-97-6	95 - 100 %	Acute Tox. 4 (Inhalation); H332 STOT RE 2; H373 Aquatic Chronic 4; H413

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

<sup>2</sup>: See the text of the regulation for applicable exceptions or provisions -

## SECTION 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 any immediate medical attention and special treatment needed: No data available.

## SECTION 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 dioxide (CO<sub>2</sub>), Carbon monoxide, Nitrogen oxides (NO<sub>x</sub>)

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.

## 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. Avoid contact with the skin and the eyes. Do not breathe dust. Wear a dust mask and safety glasses/goggles if necessary. In case of insufficient ventilation, wear suitable respiratory equipment.

### 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.

**Elimination:**

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

6.4. Reference to other sections: None.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling:

**Technical measures/Precautions:**

Storage and handling precautions applicable to products: Solid. Harmful. 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:**

Avoid contact with the skin and the eyes. When using do not eat, drink or smoke. Do not breathe dust.  
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.

**Incompatible products:**

Strong oxidizing agents

**Packaging material:**

**Recommended:** Metals

**To be avoided:** Plastic materials

7.3. Specific end use(s): None.

SECTION 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.
EH40 WEL	12 2011		–	–	Inhalable dust. Listed
EH40 WEL	12 2011		–	–	Respirable dust. Listed
ACGIH (US)	03 2014	TWA	–	3	Respirable particles.
ACGIH (US)	03 2014	TWA	–	10	Inhalable particles.

**Exposure Limit Values**

Not relevant

**Derived No Effect Level (DNEL):** 12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND HEXAMETHYLENEDIAMINE :

End Use	Inhalation	Ingestion	Skin contact
Workers	51,3 mg/m3 (LE, ST) 0,33 mg/m3 (LE, LT)		
Consumers	25,7 mg/m3 (LE, ST) 0,08 mg/m3 (LE, LT)		

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

**Predicted No Effect Concentration:** 12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND HEXAMETHYLENEDIAMINE :

No adverse effects have been observed at the highest recommended concentrations/doses tested , thus no PNECs were derived

8.2. Exposure controls:

**General protective measures:**

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

<b>Appropriate engineering controls:</b>	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.
<b>Personal protective equipment:</b>	
Respiratory protection:	Recommended Filter type: P2 or Recommended Filter type: P3 Respirator must be worn if exposed to dust. In the case of hazardous fumes, wear self contained breathing apparatus.
Hand protection:	Impervious gloves Minimize skin contamination by following good industrial hygiene practice., Wearing protective gloves is recommended.
Eye/face protection:	Face-shield, or, Safety glasses according to EN 166 - EN170, Eye wash bottle with pure water
Skin and body protection:	Appropriate protective clothing. Safety shoes
<b>Environmental exposure controls:</b>	
Do not release into the environment.	

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Appearance:</b>	
Physical state (20°C):	solid
Form:	powder
Colour:	white
Granulometry:	D10 : 1,8 µm D90 : 15 µm
<b>Odour:</b>	odourless
<b>Olfactory threshold:</b>	No data available.
<b>pH:</b>	Not applicable
<b>Melting point/range :</b>	121 °C
<b>Boiling point/boiling range :</b>	Not applicable
<b>Flash point:</b>	> 65 °C (Seta Flash Method)
<b>Evaporation rate:</b>	Not relevant
<b>Flammability (solid, gas):</b>	
Flammability:	Non flammable product (Method A10: Flammability (solids))
<b>Vapour pressure :</b>	12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND HEXAMETHYLENEDIAMINE : 0,000326 mPa , at 25 °C (OECD Test Guideline 104)
<b>Vapour density:</b>	Not relevant
<b>Density:</b>	1,02 g/cm3 , at 20 °C
<b>Water solubility:</b>	12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND HEXAMETHYLENEDIAMINE : < 0,005 - 0,009 µg/l insoluble at 20 °C (OECD Test Guideline 105)
<b>Partition coefficient: n-octanol/water:</b>	12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND HEXAMETHYLENEDIAMINE : log Kow : 6,01 , at 20 °C (OECD Test Guideline 117)
<b>Auto-ignition temperature :</b>	12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND HEXAMETHYLENEDIAMINE : > 450 °C (Standard A16 (D. 92/69/EEC))
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity, kinematic:</b>	Not applicable
<b>Viscosity, dynamic:</b>	Not applicable
<b>Explosive properties:</b>	
Explosivity:	Dust may form explosive mixture in air.
<b>Oxidizing properties:</b>	Not relevant (due to its chemical structure)

9.2. **Other information:** None.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. **Reactivity:**

Stable under recommended storage conditions.

10.2. **Chemical stability:** No data available.

### 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.

Thermal decomposition giving toxic and/or irritating products., • Formation of :  
carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

## SECTION 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:** From its composition, it must be considered as: **Harmful by inhalation.**

12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND HEXAMETHYLENEDIAMINE  
:

• In animals : LC50/4 h/Rat: 3,56 mg/l (Method: OECD Test Guideline 403), Dust inhalation:, Difficulty in breathing  
(Alveolar dust fraction)

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

12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND  
HEXAMETHYLENEDIAMINE :

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

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

12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND  
HEXAMETHYLENEDIAMINE :

• In animals : No mortality/Rat: 2.000 mg/kg (Method: OECD Test Guideline 402), No specific toxic effects

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

**Skin contact:** According to its composition : **Possible irritation of skin.**

12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND HEXAMETHYLENEDIAMINE  
:

• In animals : Mild skin irritation (OECD Test Guideline 404, Rabbit, Exposure time: 4 h)

**Eye contact:** According to its composition, can be considered as **Not irritating to the eyes.**

12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND HEXAMETHYLENEDIAMINE  
:

• In animals : No eye irritation (OECD Test Guideline 405, Rabbit)

#### **Respiratory or skin sensitisation:**

**Inhalation:** No data available.

**Skin contact:** According to its composition, can be considered as **Not a skin sensitizer**

12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND HEXAMETHYLENEDIAMINE  
:

• In animals : No skin allergy was observed (Method: OECD Test Guideline 406 Guinea pig maximization test)

#### **CMR effects :**

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

**In vitro**

12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND HEXAMETHYLENEDIAMINE  
:  
Inactive in genotoxic in vitro tests  
In vitro gene mutation study in bacteria: (Method: OECD Test Guideline 471)  
In vitro gene mutations test on mammalian cells: (Method: OECD Test Guideline 476)  
In vitro chromosomal abnormality test on human lymphocytes: (Method: OECD Test Guideline 473)

**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.**

12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND

HEXAMETHYLENEDIAMINE :

- 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:** **Based on the available data, the substance is not suspected of having developmental toxicity potential.**

12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND

HEXAMETHYLENEDIAMINE :

- In animals : Exposure during pregnancy: Absence of toxic effects for foetal development., No teratogenic effects  
NOAEL ( Developmental Toxicity ) : 1.000 mg/kg bw/day  
NOAEL ( Maternal Toxicity ) : 1.000 mg/kg bw/day  
(Method: OECD Test Guideline 414, Rat, By oral route)

**Specific target organ toxicity :**

**Single exposure :**

**Inhalation:**

12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND HEXAMETHYLENEDIAMINE  
:  
• In man : Dust inhalation: , At high concentrations, Risk of irritation of respiratory system

**Repeated exposure:** **The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.**

12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND HEXAMETHYLENEDIAMINE  
:

- In animals : By oral route: No specific toxic effects  
NOAEL= 1000 mg/kg bw/jour (Method: OECD Test Guideline 407, Rat, 4 Weeks)  
By inhalation: Dust inhalation:, Non-specific chronic alveolar inflammation, Target organs: lung,  
NOAEL= 3,30µg/L (Method: OECD Test Guideline 413, Rat, 3 months)

**Aspiration hazard:**

Not applicable

**SECTION 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. Toxicity :**

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

12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND HEXAMETHYLENEDIAMINE  
:

LC50, 96 h (Oncorhynchus mykiss (rainbow trout)) : > 100 mg/l (Method: OECD Test Guideline 203)

**Aquatic invertebrates:**

12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND HEXAMETHYLENEDIAMINE  
:

EC50, 48 h (Daphnia magna (Water flea)) : > 100 mg/l (Method: OECD Test Guideline 202)

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

12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND HEXAMETHYLENEDIAMINE  
:

ErC50, 72 h (Pseudokirchneriella subcapitata (microalgae)) : > 100 mg/l (Method: OECD Test Guideline 201)

**Microorganisms:**

12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND HEXAMETHYLENEDIAMINE  
:  
EC50, 3 h (Activated sludge) : > 100 mg/l (Method: OECD Test Guideline 209)

**Aquatic toxicity / Long term toxicity:**

**Aquatic invertebrates:**

12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND HEXAMETHYLENEDIAMINE  
:  
NOEC, 21 d (Daphnia magna (Water flea)) : >= 50 mg/l (Method: OECD Test Guideline 211, reproduction)

**Aquatic plants:**

12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND HEXAMETHYLENEDIAMINE  
:  
NOEC r, 72 h (Pseudokirchneriella subcapitata) : 100 mg/l (Method: OECD Test Guideline 201, Growth inhibition)

**12.2. Persistence and degradability :**

**Biodegradation (In water):** According to its composition, can be considered as , Not readily biodegradable.

12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND HEXAMETHYLENEDIAMINE  
:  
9 % after 29 d (Method: OECD Test Guideline 301 B)

**12.3. Bioaccumulative potential :**

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

12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND HEXAMETHYLENEDIAMINE  
:  
Partition coefficient: n-octanol/water: log Kow : 6,01 , at 20 °C (Method: OECD Test Guideline 117)

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

12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND HEXAMETHYLENEDIAMINE  
:  
0,000326 mPa, 25 °C, (Method: OECD Test Guideline 104)

**Absorption / desorption:** Strong adsorption

12-HYDROXYOCTADECANOIC ACID, REACTION PRODUCTS WITH 1,3-BENZENEDIMETHANAMINE AND HEXAMETHYLENEDIAMINE  
:  
log Koc: 6,26 ( Method: measured )

**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.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods:**

**Disposal of product:** The product should not be allowed to enter drains, water courses or the soil. Dispose of contents or 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.

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**SECTION 14: TRANSPORT INFORMATION**

Not classified as dangerous in the meaning of transport regulations.

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**SECTION 15: REGULATORY INFORMATION**



Safety data sheets: accordance with Annex II of Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

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

Major Accident Hazard Legislation

Not applicable

**15.2. Chemical safety assessment:**

A Chemical Safety Assessment has been carried out for this substance.

**INVENTORIES:**

European union/EEA:	In the event of purchase from an Arkema legal entity based in the European Economic Area (EEA), it is established that this product complies with the registration provisions of REACH Regulation (EC) No. 1907/2006, given that all of its components are excluded, exempted and / or registered. If purchasing from a legal entity established outside the EEA, please contact your local representative for more information.
TSCA (USA) :	The components of this product are all on the TSCA Inventory
NDSL (Canada) :	All components of this product are on the Canadian DSL
IECSC (CN):	All components of this product are listed or exempted
ENCS (JP):	All components of this product are listed or exempted
ISHL (JP):	All components of this product are listed or exempted
KECI (KR):	All components of this product are listed or exempted
PICCS (PH):	All components of this product are listed or exempted
NZIOC (NZ) :	All components of this product are listed or exempted
AIRC:	All components of this product are listed or exempted
TCSI:	All components of this product are listed or exempted

**SECTION 16: OTHER INFORMATION**

**Full text of H, EUH-phrases 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.

**Update:**

Safety datasheet sections which have been updated:		Type:
15	Inventories	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).**

