

Product: **CRAYVALLAC SUPER**

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SDS No.: 210478-001 (Version 4.1)

Date 12.02.2014 (*Cancel and replace* : 07.12.2012)**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Identification of the product****Substance name:**REACH Registration Name: 99422018
REACH Registration Number: 01-2119545465-35-0000
EC Nr: 907-495-0**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the Substance/Mixture :** Additive for :
Paint, Coatings, Inks, Adhesives**1.3. Details of the supplier of the safety data sheet**

Supplier	Arkema COATING RESINS Arkema France 420, rue d'Estienne d'Orves F-92705 Colombes Cedex France Tel : +33 (0)1 49 00 80 80 Fax : +33 (0)1 49 00 83 96 http://www.arkema.com
E-mail address	pars-drp-fds@arkema.com

1.4. Emergency telephone number**+33 1 49 00 77 77**
Numéro d'appel d'urgence européen : 112
ORFILA : 01 45 42 59 59
European emergency phone number : 112**2. HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture****Classification (Regulation (EC) No 1272/2008):**

Chronic aquatic toxicity, 3, H412

Classification (Directive 67/548/EEC):

R52

Additional information:

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

2.2. Label elements**Label elements (Regulation (EC) No 1272/2008):****Hazardous components which must be listed on the label:**

EC Nr : 907-495-0

99422018

Hazard statements:

H412 : Harmful to aquatic life with long lasting effects.

Precautionary statements:
P273 : Avoid release to the environment.

Disposal:
P501 : Dispose of contents/ container to an approved incineration plant.

2.3. Other hazards

Potential health effects:

Inhalation: Dust inhalation: At high concentrations Risk of irritation of respiratory system
Eye contact: Slightly irritating to eyes

Environmental Effects:

Harmful to algae. Harmful to daphnia. 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 products.
Decomposition products: See chapter 10

Other:

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating, toxic (PBT), nor very persistent, very bioaccumulating (vPvB).

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Micronized wax

Chemical Name ¹	EC-No.	CAS-No.	Concentration	Classification Directive 67/548/EEC	Classification Regulation (EC) No 1272/2008
99422018	907-495-0		100 %	R52	Aquatic Chronic 3; H412

¹: See chapter 14 for Proper Shipping Name

4. FIRST AID MEASURES

4.1. & 4.2. Description of necessary first-aid measures & Most important symptoms/effects, acute and delayed:

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.

4.3. 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
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 skin and eyes and inhalation of 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.

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:

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Exposure Limit Values (dust)

Source	Date	Value type	Value (ppm)	Value (mg/m3)	Remarks
ACGIH (US)	2008	TWA	–	10	Inhalable particles.
ACGIH (US)	2008	TWA	–	3	Respirable particles.

Exposure Limit Values Not relevant

Derived No Effect Level (DNEL): No data available.

Predicted No Effect Concentration:

Compartment:	Value:
Soil	217 mg/kg dw
Marine water	0,00432 mg/l
Fresh water	0,0432 mg/l
Marine sediment	108 mg/kg dw
Fresh water sediment	1080 mg/kg dw
Effects on waste water treatment plants	10 mg/l

8.2. Exposure controls:

General protective measures: Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

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

Granulometry: D10 : 1,8 µm
D90 : 15 µm

Odour: None.

Olfactory threshold: Not relevant

pH: not applicable

Melting point/range : 117 - 127 °C (OECD Test Guideline 102)

Boiling temperature : >= 250 °C Decomposes before boiling. (OECD Test Guideline 103)

Flash point: not applicable

Evaporation rate: No data available.

Flammability (solid, gas):

Flammability: Non flammable product (Standard A10)

Vapour pressure: 0,00004 Pa , at 25 °C (OECD Test Guideline 104)

Vapour density: No data available.

Density: 0,929 g/cm3 , at 20 °C (OECD Test Guideline 109)

Water solubility: 0,021 mg/l insoluble

Partition coefficient: n-octanol/water: log Kow : 8,6 , at 25 °C (calculated)

Auto-ignition temperature: > 400 °C

Decomposition temperature: >= 250 °C

Viscosity, dynamic: not applicable

Explosive properties:

Explosivity: In the presence of an ignition source: Dust may form explosive mixture in air.
Oxidizing properties: Not relevant (due to the chemical structure)

9.2. Other data:

Solubility in other solvents: Soluble in most organic solvents
pKA: 11,8 at 20 °C (calculated)

10. STABILITY AND REACTIVITY

10.1. & 10.2. Reactivity & 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:

Decomposition temperature: ≥ 250 °C

Thermal decomposition can lead to release of irritating gases and vapours.

Formation of toxic products through combustion:., Carbon oxides

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects:

Acute toxicity:

Inhalation:

• In animals :

Slightly harmful by inhalation

No mortality/4 h/rat: 5,1 mg/l (Method: OECD Test Guideline 403), Dust inhalation:., Difficulty in breathing

Ingestion:

• In animals :

Slightly harmful by ingestion

No mortality/rat: 2.000 mg/kg (Method: OECD Test Guideline 423) No specific toxic effects

Dermal:

• In animals :

Slightly harmful in contact with skin

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:

Slightly or not irritating to skin Slightly or not irritating to skin

Mild skin irritation (OECD Test Guideline 404, rabbit, Exposure time: 4 h)

Eye contact:

• In animals :

Slightly irritating to eyes.

Mild eye irritation (OECD Test Guideline 405, rabbit)

Respiratory or skin sensitisation:

Inhalation:

No data available.

Skin contact:

• In animals :

Not a skin sensitizer

No skin allergy was observed (Method: OECD Test Guideline 429 LLNA: Local Lymph Node Assay, mouse)

CMR effects :

Mutagenicity:

Not genotoxic

In vitro

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:

This information is not available.

Reproductive toxicity:

Fertility:

- In animals :

Based on the available data, the substance is not suspected of having reprotoxic potential.
Reproductive/Developmental Effects Screening Assay: No toxic effects for reproduction, NOAEL: 1000 mg/kg (Method: OECD Test Guideline 421, rat, By oral route)

Specific target organ toxicity :

Single exposure :

Inhalation:

- In man :

Dust inhalation: , At high concentrations, Risk of irritation of respiratory system

Repeated exposure:

- In animals :

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
By oral route: According to limited available data
No specific toxic effects, NOAEL= 1.000 mg/kg (Method: OECD Test Guideline 421, rat, 6 Weeks)

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. Toxicity :

Fish:

Slightly harmful to fish

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

Aquatic invertebrates:

Harmful to daphnia.

EC50, 48 h (Daphnia magna (Water flea)) : 94,9 mg/l (Method: OECD Test Guideline 202)

Aquatic plants:

Harmful to algae.

EC50, 72 h (Pseudokirchneriella subcapitata) : 43,2 mg/l (Method: OECD Test Guideline 201, Growth inhibition)

Microorganisms:

EC20, 3 h (Activated sludge) : > 1.000 mg/l (Method: OECD Test Guideline 209)

Aquatic toxicity / Long term toxicity:

Aquatic plants:

EC10, 72 h (Pseudokirchneriella subcapitata) : 37 mg/l (Method: OECD Test Guideline 201, Growth inhibition)

12.2. Persistence and degradability :

Biodegradation (In water):

Readily biodegradable

63 % after 28 d (Method: OECD Test Guideline 301 D)

12.3. Bioaccumulative potential :

Bioaccumulation:

Potentially bioaccumulable.

Partition coefficient: n-octanol/water: log Kow : 8,6 , at 25 °C (Method: calculated)

12.4. Mobility in soil - Distribution among environmental compartments:

Absorption / desorption:

Strong adsorption

log Koc: 5,4 (Method: OECD Test Guideline 121)

12.5. Results of PBT and vPvB assessment :

This substance is not considered to be persistent, bioaccumulating, toxic (PBT), nor very persistent, very bioaccumulating (vPvB).

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: according to Regulation (EC) No. 1907/2006

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

15.2. Chemical Safety Assessment:

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

INVENTORIES:

EINECS: Conforms to

16. OTHER INFORMATION

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

R52 Harmful to aquatic organisms.
H412 Harmful to aquatic life with long lasting effects.

Update:

Safety datasheet sections which have been updated:		Type:
2	Classification and labelling	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).

