

Product: **CRAYVALLAC WF-6010**

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SDS No.: 211246-001 (Version 2.0)

Date 19.12.2012

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Identification of the product**

Identification of the mixture: CRAYVALLAC WF-6010

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
	Arkema Coatings Resins Ltd Laporte Road Stallingborough, near Grimsby, N.E. Lincolnshire, DN 41 8DR United Kingdom Tel : +44 (0) 1469 572465 Fax : +44 (0)1469 572988 http://www.arkema.com pars-drp-fds@arkema.com
E-mail address	

1.4. Emergency telephone number**+33 1 49 00 77 77**
European emergency phone number : 112
For 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):**

This mixture is not classified as dangerous according to Regulation (EC) No 1272/2008.

Classification according to EU Directives 1999/45/EC :

This mixture is not classified as dangerous according to Directive 1999/45/EC.

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

No label necessary for this product.

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

Irritation: Possible irritation of respiratory system (by dust inhalation).

Physical and chemical hazards:Dust may form explosive mixture in air. At high temperature : Thermal decomposition giving toxic products.
Decomposition products: See chapter 10**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures****Chemical nature of the mixture¹:**
Micronized wax

Hazardous components (according to Regulation (EC) No. 1907/2006 and its amendment (453/2010)) :

Chemical Name ¹ & REACH Registration Number ²	EC-No.	CAS-No.	Concentration	Classification Directive 67/548/EEC	Classification Regulation (EC) No 1272/2008
Paraffin waxes and Hydrocarbon waxes (01-2119488076-30)	232-315-6	8002-74-2	> 50 %	WEL substance	

¹: See chapter 14 for Proper Shipping Name

²: 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. & 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:

Dust may form explosive mixture in air.

In the event of fire and/or explosion do not breathe fumes.

Formation of toxic products through combustion:

Carbon dioxide (CO₂), Carbon monoxide

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. Protect from light.

Incompatible products:

Strong oxidizing agents

Packaging material:

Recommended: Metals

To be avoided: Plastic materials

7.3. Specific end uses: 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	2007	TWA	–	4	Respirable dust.
EH40 WEL	2007	TWA	–	10	Inhalable dust.
ACGIH (US)	2008	TWA	–	10	Inhalable particles.
ACGIH (US)	2008	TWA	–	3	Respirable particles.

Exposure Limit Values

Paraffin waxes and Hydrocarbon waxes

Source	Date	Value type	Value (ppm)	Value (mg/m3)	Remarks
EH40 WEL	2007	STEL	–	6	Fume.
EH40 WEL	2007	TWA	–	2	Fume.
ACGIH (US)	2007	TWA	–	2	Fume.

Derived No Effect Level (DNEL): PARAFFIN WAXES AND HYDROCARBON WAXES :

End Use	Inhalation	Ingestion	Skin contact
Workers	2 mg/m3 (SE, ST) 2 mg/m3 (LE, LT) 2 mg/m3 (SE, LT) 2 mg/m3 (LE, ST)		

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

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
Odour:	odourless
Odour threshold:	No data available.
pH:	No data available.
Melting point :	110 - 115 °C
Boiling point/boiling range:	No data available.
Flash point:	Not relevant
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Vapour pressure:	No data available.
Vapour density:	No data available.
Density:	1,07 g/cm ³ , at 20 °C
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	PARAFFIN WAXES AND HYDROCARBON WAXES : log Kow : 6 (calculated)
Autoignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity, dynamic:	not applicable
Explosive properties:	
Explosivity:	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
Solid content in the solution:	100 %(m)

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 can lead to release of irritating gases and vapours.
Formation of toxic products through combustion:
carbon dioxide, Carbon monoxide

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, this product should not be harmful in normal conditions of use
Thermal decomposition over 350°C can provoke pseudo-flu condition with fever and muscular pains (polymer fever)

Ingestion: According to its composition, can be considered as : Slightly or not harmful by ingestion

PARAFFIN WAXES AND HYDROCARBON WAXES :
• In animals : No mortality/rat: 5.000 mg/kg (Method: OECD Test Guideline 401)

Dermal: According to its composition, can be considered as : Slightly or not harmful in contact with skin

PARAFFIN WAXES AND HYDROCARBON WAXES :
• In animals : No mortality/rat: 2.000 mg/kg (Method: OECD Test Guideline 402)

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

Skin contact: According to its composition, can be considered as : Slightly or not irritating to skin

PARAFFIN WAXES AND HYDROCARBON WAXES :
• In animals : No skin irritation (OECD Test Guideline 404, rabbit)

Eye contact: According to its composition, can be considered as : Slightly or not irritating to eyes

PARAFFIN WAXES AND HYDROCARBON WAXES :
• In animals : Mild eye irritation (OECD Test Guideline 405, rabbit)

Respiratory or skin sensitization:

Inhalation: No data available.

Skin contact: None of the product and/or component quoted in section 3 and/or analogue substance/metabolite is classified as skin sensitizer.

CMR effects :

Mutagenicity: Available experimental data indicates no particular problems for man

In vitro

PARAFFIN WAXES AND HYDROCARBON WAXES :
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: Active (Method: OECD Test Guideline 476)

Carcinogenicity: Available experimental data indicates no particular problems for man. (in the usual conditions of use)

PARAFFIN WAXES AND HYDROCARBON WAXES :
• In animals : Absence of carcinogenic effects (rat, mouse, lifetime, Different methods of administration)

Reproductive toxicity:

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

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

Specific target organ toxicity :

Single exposure : No data available.

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

PARAFFIN WAXES AND HYDROCARBON WAXES :

• In animals : By diet: Liver disorders, Haematological problems, Cardiovascular problems, NOAEL= = 1,5 mg/kg
(Method: OECD Test Guideline 408, rat, 3 months)

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 : No data available.

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.**

PARAFFIN WAXES AND HYDROCARBON WAXES :

78 - 84 % after 28 d (Method: OECD Test Guideline 301 B)

12.3. Bioaccumulative potential :

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

PARAFFIN WAXES AND HYDROCARBON WAXES :

Partition coefficient: n-octanol/water: log Kow : 6 (Method: calculated)

12.4. Mobility in soil - Distribution among environmental compartments: No data available.

12.5. Results of PBT and vPvB assessment : None.

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 and its amendment (453/2010)

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: None.

INVENTORIES:

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

16. OTHER INFORMATION

Update:

Safety datasheet sections which have been updated:	Type:
General update of Safety Data Sheet.	

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).