

Product:

CRAYVALLAC® LA-377

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SDS No.: 218334-001 (Version 3.0)

Date 18.01.2023 (Cancel and replace : 12.06.2020)

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

1.1. Product identifier

Identification of the mixture: CRAYVALLAC® LA-377

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

Use of the Substance/Mixture : Additive for :, Paints, Coatings, Inks, Adhesives

1.3. Details of the supplier of the safety data sheet

Supplier	ARKEMA 420 rue d'Estienne d'Orves 92705 Colombes Cedex, FRANCE Telephone: +33 1 49 00 80 80 Telefax: +33 1 49 00 83 96 E-mail address: pars-drp-fds@arkema.com http://www.arkema.com
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1.4. Emergency telephone number

+ 33 1 49 00 77 77
European emergency phone number: 112

SECTION 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):

Additional information: No label necessary for this product.

2.3. Other hazards

Potential health effects:

Skin contact: Risk of skin sensitization. Direct contact with product : May cause skin irritation.
 Eye contact: Direct contact with product : May cause eye irritation.
 Ingestion: Ingestion may cause irritation to mucous membranes.

Physical and chemical hazards:

Thermal decomposition giving toxic products.
 Decomposition products: See chapter 10

Other:

Endocrine disrupting properties - Health :

Based on the available information, it is not possible to conclude on the endocrine disruptor potential.

Endocrine disrupting properties - Environment :

Based on the available information, it is not possible to conclude on the endocrine disruptor potential.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Chemical nature of the mixture¹:
 MODIFIED UREA SOLUTION

- ¹: See chapter 14 for Proper Shipping Name
²: 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:

Move patient from contaminated area to fresh air. In case of persistent problems : Consult a physician.

Skin contact:

Wash immediately, abundantly and thoroughly with soap and water. If skin irritation occurs, seek medical advice/attention.

Eye contact:

Wash open eyes immediately, abundantly and thoroughly for at least 15 minutes. Seek advice of an ophthalmologist if necessary.

Ingestion:

Do NOT induce vomiting. Consult a physician.

Protection of first-aiders:

Protective suit. 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: Water spray, Water mist, powder, foam, Carbon dioxide (CO₂)

Unsuitable extinguishing media: High volume water jet

5.2. Special hazards arising from the substance or mixture:

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

Thermal decomposition giving toxic products:

Nitrogen oxides (NO_x), Sulphur compounds

Formation of toxic products through combustion:

Carbon oxides

5.3. Advice for firefighters:

Specific methods:

Use water spray to cool unopened containers. Do not allow run-off from fire fighting to enter drains or water courses.

Special protective actions for fire-fighters:

In the event of fire, wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep away from heat and sources of ignition. Do not smoke. Avoid contact with the skin and the eyes. Avoid inhalation of vapours.

6.2. Environmental precautions:

Do not let product enter drains. Do not flush into surface water. Do not release into the environment. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and materials for containment and cleaning up:

Methods for cleaning up:

After cleaning, flush away traces with water. Recover waste water for processing later.

Recovery:

Shovel into suitable container for disposal. Never return spills in original containers for re-use. Absorb the remainder with an inert absorbent material (sand, vermiculite, perlite).

Elimination: See chapter 13

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: Liquid. Flammable (when hot). Provide appropriate exhaust ventilation at machinery. Provide showers, eye-baths. Provide electrical earthing of equipment.

Safe handling advice:

Remove all sources of ignition. In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene measures:

Take off immediately all contaminated clothing. Avoid contact with the skin and the eyes. Avoid inhalation of vapours. When using do not eat, drink or smoke.

Wash hands after handling. Remove contaminated clothing and protective equipment before entering eating areas.

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

Keep in a dry, cool and well-ventilated place. Store in original container. Keep container tightly closed. Keep away from heat and sources of ignition. Do not smoke. Provide electrical earthing of equipment. Avoid long storage period. Store away from frost.

Incompatible products:

Organic and mineral acids (sulphur, phosphorus) halides Methylbromide Sodium hydride Zinc, Steel (in the presence of water) Strong acids : perchloric acid, periodic acid Strong oxidizing agents

Packaging material:

Recommended: Plastic materials

To be avoided: Metals

7.3. **Specific end use(s):** None.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. **Control parameters:**

Exposure Limit Values Not relevant

Derived No Effect Level (DNEL):

This information is not required.

Predicted No Effect Concentration:

This information is not required.

8.2. **Exposure controls:**

Appropriate engineering controls: Frequently monitor and control the working atmosphere. Provide appropriate exhaust ventilation at machinery.

Personal protective equipment:

Respiratory protection:	In the case of hazardous fumes, wear self contained breathing apparatus. In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection:	Protective gloves PVA butyl-rubber
Eye/face protection:	Safety glasses
Skin and body protection:	Protective suit

Environmental exposure controls: See chapter 6

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance:

Physical state (20°C):	liquid
Colour:	yellow
Odour:	characteristic
Odour Threshold:	No data available.
Melting point/freezing point :	18,5 °C
Boiling point/boiling range:	No data available.

Flammability:	No data available.
Lower explosion limit :	No data available.
Upper explosion limit :	No data available.
Flash point:	97,5 °C
Auto-ignition temperature:	No data available.
Decomposition temperature:	> 190 °C
pH:	No data available.
Viscosity, kinematic:	No data available.
Water solubility:	miscible
Partition coefficient: n-octanol/water:	No data available.
Vapour pressure:	No data available.
Relative density:	No data available.
Relative vapour density:	No data available.

9.2. Other information:

Explosive properties:	
Explosivity:	Not relevant
Oxidizing properties:	Not relevant

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: No data available.

10.2. Chemical stability:

The product is stable at ambient temperature, Hygroscopic product (strongly), Stability of the solution decreases under the action of heat, light, and in the presence of impurities

10.3. Possibility of hazardous reactions:

None under normal conditions of use.

10.4. Conditions to avoid:

Store protected from moisture and heat. Store away from frost.

10.5. Incompatible materials to avoid:

Acids, Oxidizing agents

10.6. Hazardous decomposition products:

Thermal decomposition:

Decomposition temperature: > 190 °C

Thermal decomposition giving toxic products:

Nitrogen oxides (NOx), Sulphur compounds

Formation of toxic products through combustion:

Carbon oxides

SECTION 11: TOXICOLOGICAL INFORMATION

All available and relevant 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 hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity:

Inhalation:	According to its composition, can be considered as Slightly harmful by inhalation
Ingestion:	According to its composition, can be considered as Slightly harmful by ingestion
Dermal:	According to its composition, can be considered as Slightly harmful in contact with skin.

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

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

Respiratory or skin sensitisation:

Inhalation: No data available.

Skin contact: **Repeated contact may cause allergic reactions in very susceptible persons.**
Traces of :
Residual monomers

CMR effects :

Mutagenicity: Results from tests do not lead to considering the product as genotoxic

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.

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

Specific target organ toxicity :

Single exposure :

Inhalation: According to its composition : Possible irritation of upper respiratory system

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

Aspiration hazard:

Not applicable

11.2. Information on other hazards:

Endocrine disrupting properties: Based on the available information, it is not possible to conclude on the endocrine disruptor potential.

Other information: Not relevant

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicology Assessment: All available and relevant 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 : None.

12.3. Bioaccumulative potential : No data available.

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

12.5. Results of PBT and vPvB assessment : None.

12.6. Endocrine disrupting properties:

Based on the available information, it is not possible to conclude on the endocrine disruptor potential.

12.7. Other adverse effects: None known.

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: Recycle if possible.

SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 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:

15.2. Chemical safety assessment:

This information is not required.

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) : This product contains one or several components that are not on the TSCA inventory

DSL/NDSL (CA) : This product contains one or several components that are not on the Canadian DSL nor NDSL lists.

IECSC (CN) : Consult ARKEMA

ENCS (JP) : Not all components of this product are listed or exempted

ISHL (JP) : Not all components of this product are listed or exempted

KECI (KR) : Not all components of this product are listed or exempted

PICCS (PH) : The mixture contains a polymer. All the monomers for this polymer & other substances are listed on the inventory, Consult Arkema.

NZIOC (NZ) : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

AiIC (AU) : Not all components of this product are listed or exempted

TCSI (TW) : Not all components of this product are listed or exempted

SECTION 16: OTHER INFORMATION

Update:

Safety datasheet sections which have been updated:		Type:
1	Product name	Revisions
15	Inventories	Revisions
	REGULATION (UE) N°2020/878	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).