

Product: **ENCOR® 2100**

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SDS No.: 210905-001 (Version 1.0)

Date 11.02.2014

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

Identification of the mixture: ENCOR® 2100

Recommended use of the chemical and restrictions on use :

Use of the Substance/Mixture : Dispersion for water based paint formulations.

Company/Undertaking Identification:

Supplier	ARKEMA - France 420 rue d'Estienne D'Orves 92705 Colombes Cedex France Téléphone : +33(0)1 49 00 80 80 Télécopie : +33(0)1 49 00 83 96 http://www.arkema.com
Importer	ARKEMA Pte Ltd 10 Science Park Road #01-01A The Alpha Singapore Science Park II Singapore 117684 Tel: (65) 64199199 Fax:(65) 64199188

Emergency telephone number **+65 3158 1074**

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Not a hazardous substance or mixture according to Globally Harmonized System.

GHS-Labeling

No label necessary for this product.

Most important hazards:

Potential health effects:

Skin contact: 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.

Environmental Effects:

Not readily biodegradable.

Physical and chemical hazards:

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

Chemical nature of the mixture¹:

Aqueous dispersion of styrene-acrylic copolymer.
 Presence of additives
 Residual monomers: < 0.1%

¹: See chapter 14 for Proper Shipping Name

4. FIRST AID MEASURES

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

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.

5. FIREFIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media:

Water spray, Water mist, powder, foam, Carbon dioxide (CO2)

Unsuitable extinguishing media:

High volume water jet

Specific hazards arising from the chemical:

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

Thermal decomposition giving flammable and toxic products:

Acrylates, methacrylates, styrene

Formation of toxic products through combustion:

Carbon oxides

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

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.

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.

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

7. HANDLING AND STORAGE

Precautions for safe handling:

Technical measures/Precautions:

Storage and handling precautions applicable to products: Liquid. 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.

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:

Acids, Strong oxidizing agents

Packaging material:

Recommended: Stainless steel, Polyethylene

To be avoided: Iron, Aluminium

Specific use(s) (End Use): None.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS:

Exposure Limit Values Contains no substances with occupational exposure limit values.

EXPOSURE CONTROLS:

Appropriate engineering controls:

Frequently monitor and control the working atmosphere. Provide appropriate exhaust ventilation at machinery.

Personal protective equipment:

Respiratory protection:	In case of insufficient ventilation, wear suitable respiratory equipment In the case of hazardous fumes, wear self contained breathing apparatus.
Hand protection:	Gloves (PVC, neoprene, nitrile rubber)
Eye/face protection:	Safety glasses
Skin and body protection:	Protective suit

Environmental exposure controls: See chapter 6

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Physical state (20°C):	liquid (20 °C)
Colour:	white
Odour:	Acrylates (slight)
Olfactory threshold:	No data available.
pH:	Temperature 20 °C, pH 7 - 8,5 (ISO 976)
Melting point/range :	0 °C (water)
Boiling point/boiling range :	100 °C (water)
Flash point:	Not relevant
Evaporation rate:	No data available.
Flammability (solid, gas):	
Flammability:	not applicable
Vapour pressure:	23 mbar , at 20 °C (water)
Vapour density:	No data available.
Density:	1,03 g/cm3 (ISO 2811)
Water solubility:	soluble
Partition coefficient: n-octanol/water:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity, dynamic:	500 - 2.500 mPa.s , at 20 °C (ISO 2555)
Explosive properties:	
Explosivity:	Not relevant

Oxidizing properties: Not relevant

10. STABILITY AND REACTIVITY

Reactivity & Chemical stability:

The product is stable under normal handling and storage conditions.

Possibility of hazardous reactions:

None under normal conditions of use.

Conditions to avoid:

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

Incompatible materials to avoid:

Acids, Oxidizing agents

Hazardous decomposition products:

Thermal decomposition giving flammable and toxic products:

Acrylates, Methacrylates, Styrene

Formation of toxic products through combustion:

Carbon oxides

11. TOXICOLOGICAL INFORMATION

Toxicological information:

Acute toxicity:

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, can be considered as : Slightly or not irritating to skin

Direct contact with product :

May cause skin irritation.

At high temperature, products of thermal decomposition can be irritating to skin

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

Direct contact with product :

May cause eye irritation.

At high temperature, products of thermal decomposition can be irritating to eyes

Respiratory or skin sensitisation:

Inhalation: No data available.

Skin contact: Possible cross sensitization with other acrylates and methacrylates

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

CMR effects : Polymer: No particular problems for man

Specific target organ toxicity :

Single exposure :

Inhalation:

At high temperature, products of thermal decomposition can be irritating to respiratory system

Repeated exposure: No data available.

Aspiration hazard: No data available.

12. ECOLOGICAL INFORMATION

Acute toxicity :

Microorganisms: No data available.

Persistence and degradability :

Biodegradation (In water): Inert polymer , Not biodegradable on the basis of its structure

Bioaccumulative potential :

Bioaccumulation: No data available.

Mobility in soil : No data available.

Results of PBT and vPvB assessment :

This information is not required.

13. DISPOSAL CONSIDERATIONS

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: Recycle if possible.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Neither banned nor restricted

Singapore. Hazardous Substances Control List (Environmental Protection and Management Act, Second Schedule, Part 1, Control of Hazardous Substances)

INVENTORIES:

EINECS: Conforms to
TSCA: Conforms to
AICS: Conforms to
DSL: All components of this product are on the Canadian DSL.
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:
1-16 General update of Safety Data Sheet.	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

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).
