



SAFETY DATA SHEET

Product: JARYLEC C 101 D Page: 1/5
SDS No. : 01084 Version : 7 Date : 2005-03-09
Cancel and replace: 2002-12-30

01 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

NAME OF THE PREPARATION : JARYLEC C 101 D
RECOMMENDED USES : Dielectric fluid
SDS No : 01084
SUPPLIER : ARKEMA
CHLOROCHIMIE ET PVC (*)
Cours Michelet - La Défense 10
92091 PARIS LA DEFENSE CEDEX
FRANCE
Téléphone : 01 49 00 80 80
Télécopie : 01 49 00 83 96
Emergency telephone number : 44 1865 407 333 (*) (*)

02 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NATURE OF THE PREPARATION : MIXTURE BASED ON :
(PHENYL)(TOLYL)METHANE
CAS : 27776-01-8 EINECS : 248-654-8
(PHENYL)(BENZYL TOLYL)METHANE
CAS : 26898-17-9 EINECS : 248-097-0
(CYCLOALIPHATIC EPOXIDE : < 1%)

03 - HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS : -
HEALTH EFFECTS : Repeated exposure may cause skin dryness or cracking (*)
Risk of skin sensitization
SPECIFIC HAZARDS / EC : Repeated exposure may cause skin dryness or cracking (*)

04 - FIRST AID MEASURES

GENERAL ADVICE : Take off immediately all contaminated clothing
INHALATION : Move to fresh air
Oxygen or artificial respiration if needed
In case of persistent problems :
Consult a doctor
SKIN CONTACT : Wash immediately, abundantly and thoroughly with soap and water
EYE CONTACT : Wash immediately, abundantly and thoroughly with water
If irritation persists, consult an ophthalmologist
INGESTION : In case of problems, consult a doctor (*)
PROTECTION OF FIRST-AIDERS : If entering a saturated atmosphere, wear a self contained breathing apparatus

05 - FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA : Dry powder
Foam
Carbon dioxide (CO₂)
Water

ARKEMA

Cours Michelet - La Défense 10 92091 PARIS LA DEFENSE CEDEX FRANCE



SAFETY DATA SHEET

Product: JARYLEC C 101 D Page: 2/5

SDS No. : 01084 Version : 7 Date : 2005-03-09
Cancel and replace: 2002-12-30

SPECIFIC HAZARDS : Combustible product (when hot)
At high temperature :
Thermal decomposition gives :
Carbon oxides

SPECIFIC METHODS : Cool containers / tanks with water spray
Ensure a system for the rapid emptying of containers
in case of fire, remove exposed containers

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS :
In case of fire, wear a self-contained breathing apparatus

06 - ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION : Avoid contact with skin and eyes and inhalation of hot vapours

ENVIRONMENTAL PROTECTION : Do not release into the environment
Do not let the product enter into drains
Contain by damming

METHODS FOR CLEANING UP : -

Recovery : Pump into an inert labelled emergency container
Absorb the remainder with an inert absorbent material

Disposal : Destroy the product by incineration at an approved waste disposal site

07 - HANDLING AND STORAGE

HANDLING : -

Technical measures/Precautions : Storage and handling precautions applicable to products : (*)
LIQUID
PROBABLY SENSITIZER
Ensure appropriate exhaust and ventilation at machinery
Provide showers, eye-baths

Safe handling advice : Prohibit contact with skin and eyes and inhalation of vapours (*)

STORAGE : -

Technical measures/Storage conditions : Keep container tightly closed
Provide a catch-tank in a bunded area

Incompatible products : Oxidizing agents

PACKAGING MATERIALS : -

Recommended : Ordinary steel

08 - EXPOSURE CONTROLS / PERSONAL PROTECTION

PROTECTIVE PROVISIONS : Ensure sufficient air exchange and/or exhaust in work areas

PERSONAL PROTECTION EQUIPMENT : -

Respiratory protection : High concentrations or prolonged activity: (*)
Mask with specific cartridge (organic vapours) (product handled when hot)

Hand protection : Splash contact, intermittent and prolonged (*)
PVC gloves (*)
Surface thickness : [1.2-1.4] mm

Eye protection : Safety glasses



SAFETY DATA SHEET

Product:

JARYLEC C 101 D

Page: 3/5

SDS No. : 01084

Version : 7

Date : 2005-03-09

Cancel and replace: 2002-12-30

Skin and body protection (*): At the workplace: (*)
Or (*)
Intervention at incident: (*)
Combination with delayed penetration (*)

Specific hygiene measures : Prohibit contact with skin and eyes and inhalation of vapours (*)

09 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE (20°C) : Liquid
COLOUR : Light yellow
ODOUR : Aromatic
FLASH POINT : Open cup : 144 °C
Standard : NF T 60 118
AUTOIGNITION TEMPERATURE : 459°C (EEC directive 84/449/EEC : Test A15)
VAPOUR PRESSURE : (20 °C) : 3.4 x 10EXP(-3) hPa (mbar)
(100 °C) : 1.3 hPa (mbar)
DENSITY : Liquid :
(20 °C) : 1010 kg/m³
(50 °C) : 999 kg/m³
(80 °C) : 960 kg/m³
SOLUBILITY : -
WATER : (20°C) : not miscible
Solvents : Soluble in most organic solvents
PARTITION COEFFICIENT (n-octanol/water) : log Pow = 4.56
OTHER DATA : Surface tension : 38.44 mN/m (25°C) (*)
Flow temperature : < -50°C
Viscosity (20 °C) : 6.5 mm²/s (cSt)
Point de feu : 154°C (Standard NFT 60.118)

10 - STABILITY AND REACTIVITY

MATERIALS TO AVOID : Oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS : At high temperature : Thermal decomposition gives : Carbon oxides
FURTHER INFORMATION : The product is stable at ambient temperature
In absence of oxygen :
Stable up to approximately 280°C

11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY : -
Inhalation : According to its composition, this product should not be harmful in normal conditions of use
In animals :
Non lethal to rat in saturated atmosphere of vapours during 4 h.
Inhalation of vapours due to thermal decomposition : (700 °C)
Exposure duration 1 h :
Non lethal
Difficulty in breathing
Formation of carboxyhaemoglobin
Effect reversible within a few days

ARKEMA

Cours Michelet - La Défense 10 92091 PARIS LA DEFENSE CEDEX FRANCE



SAFETY DATA SHEET

Product: JARYLEC C 101 D Page: 4/5
SDS No. : 01084 Version : 7 Date : 2005-03-09
Cancel and replace: 2002-12-30

Ingestion : According to its composition, can be considered as :
Practically not harmful if swallowed (*)
LD50/oral/rat = 3 - 10 g/kg

Skin-contact : According to its composition, can be considered as :
Practically not harmful in contact with skin

LOCAL EFFECTS : -

Skin-contact : In animals :
Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product

Eye-contact : In animals :
(rabbit)
Slightly or not irritating to eyes

SENSITIZATION : -

Skin-contact : Risk of skin sensitization
(PRESENCE OF : CYCLOALIPHATIC EPOXIDE)

CHRONIC TOXICITY : According to available experimental data :
By mouth :
No specific toxic effects to rats (500 mg/kg)

SPECIFIC EFFECTS : GENOTOXICITY :
Inactive in :
- Micronucleus test in vivo rat
- Ames test in vitro

12 - ECOLOGICAL INFORMATION

PERSISTENCE/DEGRADABILITY : -

In water : Biological degradability : Primary biodegradation : 76 % after 48 d

BIOACCUMULATION : log Pow = 4.56

ECOTOXICITY : -

AQUATIC TOXICITY : -

Acute toxicity : Daphnia : no effect up to the limit of solubility
Bacteria : EC 0 = 1000 mg/l

Long term toxicity : Fish : LC 50, 14 d (Brachydanio rerio) = 2.53 mg/l

13 - DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT : Destroy the product by incineration at an approved waste disposal site
(in accordance with local and national regulations) (*)

14 - TRANSPORT INFORMATION

Technical consignment name : See Section : 2

ADR/RID : Not regulated

ADN/ADNR : Not regulated

IMDG : Not regulated

IATA : Not regulated
Consult ARKEMA's safety department for any further information

ARKEMA

Cours Michelet - La Défense 10 92081 PARIS LA DEFENSE CEDEX FRANCE



SAFETY DATA SHEET

Product:

JARYLEC C 101 D

Page: 5/5

SDS No. : 01084

Version : 7

Date : 2005-03-09
Cancel and replace: 2002-12-30

15 - REGULATORY INFORMATION

EEC DIRECTIVE :

SAFETY DATA SHEETS :

D. 91/155/EEC amended by D.93/112/EEC and D. 2001/58/CE: Dangerous substances and preparations

EC CLASSIFICATION / LABELLING :

DANGEROUS PREPARATIONS :

D. 1999/45/EC amended by D. 2001/60/CE
R66 _ Repeated exposure may cause skin dryness or cracking (*)
S36/37/39 _ Wear suitable protective clothing, gloves and eye/face protection

HAZARDOUS COMPONENTS :

Contains :
CYCLOALIPHATIC EPOXIDE

INVENTORIES :

EINECS (EU) : conforms
TSCA (USA) : conforms
DSL (Canada) : conforms
AICS (Australia) : conforms
ENCS (Japan) : conforms
IECSC (China) : conforms (*)

16 - OTHER INFORMATION

FURTHER INFORMATION :

WHEN USED IN FORMULATIONS, CONTACT US FOR LABELLING

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. However
the revision of some data is in progress
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
The (*) indicate the changes made with respect to the previous version

End of document.

Number of page(s): 5

ARKEMA

Cours Michelet - La Défense 10 92061 PARIS LA DEFENSE CEDEX FRANCE