

Version 1.3 Revision Date 2011-03-01

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

## **Product information**

Trade name : K-Resin® DK11 Styrene-Butadiene Copolymer

Material : 1095655, 1073674, 1083822, 1020879, 1020880, 1021265,

1034531, 1020661, 1020878, 1020877, 1021269, 1021268, 1020876, 1021077, 1021266, 1021081, 1021080, 1021079,

1021078, 1021267

Company : Chevron Phillips Chemical Company LP

K-Resin® Styrene Butadiene Copolymer

10001 Six Pines Drive The Woodlands, TX 77380

Local : Chevron Phillips Chemicals International N.V.

Brusselsesteenweg 355

B-3090 Overijse

Belgium

MSDS Requests: (800) 852-5530 Technical Information: (832) 813-4862 Responsible Party: Product Safety Group

Email:msds@cpchem.com

### **Emergency telephone:**

### Health:

866.442.9628 (North America) 1.832.813.4984 (International)

## Transport:

North America: CHEMTREC 800.424.9300 or 703.527.3887 Asia: +800 CHEMCALL (+800 2436 2255) China: 0532.8388.9090 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Chemcare Asia: Tel: +65 6848 9048 - Mob: +65 8382 9188 - Fax: +65 6848

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Responsible Department : Product Safety and Toxicology Group

E-mail address : MSDS@CPChem.com Website : www.CPChem.com

The manufacturer does not recommend using any K-Resin® SBC grade in medical applications that involve permanent or temporary implantation in the human body.

#### 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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Not a dangerous substance according to Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

## Classification (67/548/EEC, 1999/45/EC)

In accordance with Directive 1999/45/EC, the product does not need to be classified nor labeled.

#### Label elements

## Labeling (REGULATION (EC) No 1272/2008)

Not a dangerous substance according to Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Components are encapsulated within the product matrix.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Mixtures**

## **Hazardous ingredients**

Chemical Name	CAS-No. EINECS-No.	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
Styrene-Butadiene Copolymer	9003-55-8			95 - 100

#### 4. FIRST AID MEASURES

If inhaled : Move to fresh air in case of accidental inhalation of dust or

fumes from overheating or combustion. If symptoms persist,

call a physician.

In case of skin contact : If the molten material gets on skin, quickly cool in water. Seek

immediate medical attention. Do not try to peel the solidified material from the skin or use solvents or thinners to dissolve it.

In case of eye contact : In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

If swallowed : Do not induce vomiting without medical advice.

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing

media

: Water. Water mist. Dry chemical. Carbon dioxide (CO2). Foam. If possible, water should be applied as a spray from a fogging nozzle since this is a surface burning material. The application of high velocity water will spread the burning surface layer. Use extinguishing measures that are appropriate to local circumstances and the surrounding

environment.

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Specific hazards during fire

fighting

Risks of ignition followed by flame propagation or secondary explosions can be caused by the accumulation of dust, e.g. on

floors and ledges.

Special protective

equipment for fire-fighters

Use personal protective equipment. Wear self contained

breathing apparatus for fire fighting if necessary.

Further information : This material will burn although it is not easily ignited.

Fire and explosion

protection

: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a

potential dust explosion hazard.

Hazardous decomposition

products

: Simple Hydrocarbons. Carbon oxides.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Sweep up to prevent slipping hazard. Avoid breathing dust.

Environmental precautions : Do not contaminate surface water. Prevent product from

entering drains.

Methods for cleaning up : Clean up promptly by sweeping or vacuum.

Additional advice : Dust deposits should not be allowed to accumulate on

surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with

compressed air).

## 7. HANDLING AND STORAGE

## Handling

Advice on safe handling : Use good housekeeping for safe handling of the product.

Keep out of water sources and sewers.

Spilled pellets and powders may create a slipping hazard.

Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by

themselves be sufficient.

Advice on protection against fire and explosion

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a

potential dust explosion hazard.

## Storage

Requirements for storage areas and containers

Keep in a dry place. Keep in a well-ventilated place.

Advice on common storage : Do not store together with oxidizing and self-igniting products.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required. If heated material generates vapor or fumes that are not adequately controlled by ventilation, wear a NIOSH approved respirator. Use the following elements for airpurifying respirators: Dusts and Mists. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection. Dust safety masks are recommended when the dust concentration is excessive. If the occupational exposure limits cannot be met, in exceptional cases suitable respiratory equipment should be worn only for a short period of

time.

Eye protection : Use of safety glasses with side shields for solid handling is

good industrial practice. If this material is heated, wear chemical goggles or safety glasses with side shields or a face shield. If there is potential for dust, use chemical goggles.

Skin and body protection : At ambient temperatures use of clean and protective clothing is

good industrial practice. If the material is heated or molten, wear thermally insulated, heat-resistant gloves that are able to withstand the temperature of the molten product. If this material is heated, wear insulated clothing to prevent skin contact if engineering controls or work practices are not

adequate.

Protective measures : Consider the potential hazards of this material (see Section 2),

applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

**Appearance** 

Form : Pellets

Physical state : Solid Color : Clear

Odor : Mild to no odor

Safety data

Water solubility : Negligible

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Percent volatile : 0,2 %

## 10. STABILITY AND REACTIVITY

Chemical stability : This material is considered stable under normal ambient

and anticipated storage and handling conditions of

temperature and pressure

## Possibility of hazardous reactions

Conditions to avoid : Avoid prolonged storage at elevated temperature.

Materials to avoid : Avoid contact with strong oxidizing agents.

Thermal decomposition : Simple Hydrocarbons, Carbon oxides

Other data : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

## 11. TOXICOLOGICAL INFORMATION

#### K-Resin® DK11 Styrene-Butadiene Copolymer

Acute oral toxicity

Presumed Not Toxic

## K-Resin® DK11 Styrene-Butadiene Copolymer

Acute inhalation toxicity : Presumed Not Toxic

## K-Resin® DK11 Styrene-Butadiene Copolymer

Acute dermal toxicity

Presumed Not Toxic

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity effects**

## Elimination information (persistence and degradability)

Bioaccumulation : Does not bioaccumulate.

Mobility : The product is insoluble and floats on water.

Biodegradability : This material is not expected to be readily biodegradable.

### Further information on ecology

Additional ecological : This material is not expected to be harmful to aquatic

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**information** organisms.

Fish or birds may eat pellets which may obstruct their

digestive tracts.

#### 13. DISPOSAL CONSIDERATIONS

The information in this MSDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

## 14. TRANSPORT INFORMATION

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the MSDS and the bill of lading.

#### **USDOT**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

## **IMO / IMDG**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

#### IATA

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

#### **ADR**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

#### **RID**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

## 15. REGULATORY INFORMATION

## **National legislation**

Major Accident Hazard : 96/82/EC Update: 2003

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Legislation Directive 96/82/EC does not apply

**Notification status** 

Europe REACH : On the inventory, or in compliance with the inventory United States of America US.TSCA : On the inventory, or in compliance with the inventory Canada NDSL : On the inventory, or in compliance with the inventory Australia AICS : On the inventory, or in compliance with the inventory

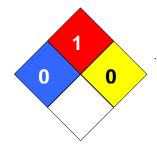
New Zealand NZIoC : Not in compliance with the inventory Japan ENCS : Not in compliance with the inventory

Korea KECI : On the inventory, or in compliance with the inventory Philippines PICCS : On the inventory, or in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory

## **16. OTHER INFORMATION**

NFPA Classification : Health Hazard: 0

Fire Hazard: 1 Reactivity Hazard: 0



#### **Further information**

Legacy MSDS Number : 248900

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this MSDS pertains only to the product as shipped.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Key or legend to abbreviations and acronyms used in the safety data sheet					
ACGIH	American Conference of Government	LOAEL	Lowest Observed Adverse Effect Level		
	Industrial Hygienists				
AICS	Australia, Inventory of Chemical	NFPA	National Fire Protection Agency		
	Substances				
DSL	Canada, Domestic Substances List	NIOSH	National Institute for Occupational Safety		
			& Health		
NDSL	Canada, Non-Domestic Substances List	NTP	National Toxicology Program		
CNS	Central Nervous System	NZIoC	New Zealand Inventory of Chemicals		
CAS	Chemical Abstract Service	NOAEL	No Observable Adverse Effect Level		
EC50	Effective Concentration	NOEC	No Observed Effect Concentration		
EC50	Effective Concentration 50%	OSHA	Occupational Safety & Health		
			Administration		

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EINECS	European Inventory of Existing Chemical Substances	PEL	Permissible Exposure Limit
MAK	Germany Maximum Concentration Values	PICCS	Philipines Inventory of Commercial Chemical Substances
GHS	Globally Harmonized System	PRNT	Presumed Not Toxic
>=	Greater Than or Equal To	RCRA	Resource Conservation Recovery Act
IC50	Inhibition Concentration 50%	STEL	Short-term Exposure Limit
IARC	International Agency for Research on	SARA	Superfund Amendments and
	Cancer		Reauthorization Act.
IECSC	Inventory of Existing Chemical	TLV	Threshold Limit Value
	Substances in China		
ENCS	Japan, Inventory of Existing and New Chemical Substances	TWA	Time Weighted Average
KECI	Korea, Existing Chemical Inventory	TSCA	Toxic Substance Control Act
<=	Less Than or Equal To	UVCB	Unknown or Variable Compositon,
			Complex Reaction Products, and
			Biological Materials
LC50	Lethal Concentration 50%	WHMIS	Workplace Hazardous Materials
			Information System
LD50	Lethal Dose 50%		·