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MATERIAL SAFETY DA	ATA SHEE	T	
		-	IK.RESIN"
			Styrene-Butadiene Copolymers
K-Resin® KR05 Sty	rene-Ru	tadiene Conolymer	The Smart Choice™
Version 1.1			Revision Date 2011-03-01
1. IDENTIFICATION OF THE	SUBSTAN	ICE/MIXTURE AND OF THE COMI	PANY/UNDERTAKING
Product information			
Trade name Material	: 10 10 10 10	Resin® KR05 Styrene-Butadiene C 76905, 1083508, 1062022, 106199 20965, 1020963, 1021152, 102115 21154, 1020964, 1021359, 101703 21356, 1021358, 1020966, 102136 20968, 1020967, 1021357	1, 1075491, 1020751, 6, 1021155, 1021153, 7, 1021354, 1021355,
Use	: Re	esin	
Company	K- 10	nevron Phillips Chemical Company I Resin® Styrene Butadiene Copolyn 001 Six Pines Drive ne Woodlands, TX 77380	
Emergency telephone:			
Health: 866.442.9628 (North 1.832.813.4984 (Inte			
Asia: +800 CHEMCA EUROPE: BIG +32.1 Chemcare Asia: Tel:	LL (+800 24 4.584545 (p +65 6848 90	9.424.9300 or 703.527.3887 136 2255) China: 0532.8388.9090 9hone) or +32.14583516 (telefax) 048 - Mob: +65 8382 9188 - Fax: +6 9 Brazil: 0800.111.767 Outside Braz	
Responsible Departmen E-mail address Website	: MS	oduct Safety and Toxicology Group SDS@CPChem.com vw.CPChem.com	
		end using any K-Resin® SBC grade Mantation in the human body.	e in medical applications that
2. HAZARDS IDENTIFICATI	ON		
GHS-Classification			
Not a dangerous substat of Chemicals (GHS).	nce accordir	ng to Globally Harmonized System	of Classification and Labeling
GHS-Labeling			
Not a dangerous substat of Chemicals (GHS).	nce accordir	ng to Globally Harmonized System	of Classification and Labeling
Components are encaps	sulated withi	n the product matrix.	
MSDS Number:1000000006	02	1/8	

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OMPOSITION/INFORMATIO	NU			
Chemical Name		CAS-No. / EINECS-No.	Concentration [wt%]	
Styrene-Butadiene Copolym	er	9003-55-8	95 - 100	
RST AID MEASURES				
General advice	:	Do not leave the victim unattended.		
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 immed of water and seek medical advice.	liately with plenty	
If swallowed	:	Do not induce vomiting without medical advice.		
RE-FIGHTING MEASURES				
Flash point		No data available		
		No data available		
Autoignition temperature	•			
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.		
Specific hazards during fire fighting	:	Risks of ignition followed by flame propagatic explosions can be caused by the accumulatic 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	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
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.		
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CCIDENTAL RELEASE MEA	SURES
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. Ave dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
ANDLING 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 hazar 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
	SONAL PROTECTION
XPOSURE CONTROLS/PER	

	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 air- purifying 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.
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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.
HYSICAL AND CHEMICAL F	PROPERTIES
Information on basic phys	PROPERTIES
Information on basic phys Appearance Form	ical and chemical properties : Pellets
Information on basic physic Appearance Form Physical state Color	ical and chemical properties : Pellets : Solid : Clear to hazy
Information on basic phys Appearance Form Physical state	ical and chemical properties : Pellets : Solid
Information on basic physic Appearance Form Physical state Color	ical and chemical properties : Pellets : Solid : Clear to hazy
Information on basic phys Appearance Form Physical state Color Odor	ical and chemical properties : Pellets : Solid : Clear to hazy
Information on basic phys Appearance Form Physical state Color Odor Safety data	ical and chemical properties : Pellets : Solid : Clear to hazy : Mild to no odor
Information on basic phys Appearance Form Physical state Color Odor Safety data Flash point	ical and chemical properties : Pellets : Solid : Clear to hazy : Mild to no odor : No data available
Information on basic phys Appearance Form Physical state Color Odor Safety data Flash point Lower explosion limit	 ical and chemical properties Pellets Solid Clear to hazy Mild to no odor No data available No data available
Information on basic physical state Color Odor Safety data Flash point Lower explosion limit Upper explosion limit	 ical and chemical properties Pellets Solid Clear to hazy Mild to no odor No data available No data available No data available No data available
Information on basic physi Appearance Form Physical state Color Odor Safety data Flash point Lower explosion limit Upper explosion limit Oxidizing properties	 ical and chemical properties Pellets Solid Clear to hazy Mild to no odor No data available
Information on basic phys Appearance Form Physical state Color Odor Safety data Flash point Lower explosion limit Upper explosion limit Oxidizing properties Autoignition temperature	 ical and chemical properties Pellets Solid Clear to hazy Mild to no odor No data available No data available
Information on basic physi Appearance Form Physical state Color Odor Safety data Flash point Lower explosion limit Upper explosion limit Oxidizing properties Autoignition temperature Molecular Weight pH	 ical and chemical properties Pellets Solid Clear to hazy Mild to no odor No data available No data available
Information on basic phys Appearance Form Physical state Color Odor Safety data Flash point Lower explosion limit Upper explosion limit Oxidizing properties Autoignition temperature Molecular Weight pH Pour point	 ical and chemical properties Pellets Solid Clear to hazy Clear to hazy Mild to no odor No data available No data available
Information on basic physi Appearance Form Physical state Color Odor Safety data Flash point Lower explosion limit Upper explosion limit Oxidizing properties Autoignition temperature Molecular Weight pH	 ical and chemical properties Pellets Solid Clear to hazy Mild to no odor No data available No data available

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Density	: 1 g/cm3
Water solubility	: Negligible
Partition coefficient: n-	: No data available
octanol/water Solubility in other solvents	: Negligible
Viscosity, kinematic	: Not applicable
Relative vapor density	: 2 (Air = 1.0)
Evaporation rate	: <1
Percent volatile	: 0,2 %

10. STABILITY AND REACTIVITY

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		
Hazardous reactions	 See 'Conditions to Avoid' and/or "Materials to Avoid" in this section. Stable under recommended storage conditions. 		
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® KR05 Styrene-Butadiene Copolymer Acute oral toxicity :

Presumed Not Toxic

LD50: PNT

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Acute inhalation toxicity : Presumed Not Toxic

K-Resin® KR05 Styrene-Butadiene Copolymer Acute dermal toxicity :

Presumed Not Toxic

LD50: PNT

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Aspiration toxicity	: No aspiration toxicity classification.
2. ECOLOGICAL INFORMA	ATION
Ecotoxicity effects	
-	n (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 information	 This material is not expected to be harmful to aquatic organisms. Fish or birds may eat pellets which may obstruct their digestive tracts.
3. DISPOSAL CONSIDERA	TIONS
The information in this M	
The information in this M	SDS pertains only to the product as shipped.
Use material for its inten may meet the criteria of a other State and local reg regulated components m	ISDS pertains only to the product as shipped. ded purpose or recycle if possible. This material, if it must be discarded, a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or ulations. Measurement of certain physical properties and analysis for hay be necessary to make a correct determination. If this material is s waste, federal law requires disposal at a licensed hazardous waste
Use material for its inten- may meet the criteria of a other State and local reg regulated components m classified as a hazardous disposal facility.	ded purpose or recycle if possible. This material, if it must be discarded, a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or ulations. Measurement of certain physical properties and analysis for hay be necessary to make a correct determination. If this material is s waste, federal law requires disposal at a licensed hazardous waste
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Use material for its inten- may meet the criteria of a other State and local reg regulated components m classified as a hazardous disposal facility. I. TRANSPORT INFORMAT The shipping description shipments in non-bulk Consult the appropriate of Goods Regulations for an etc.) Therefore, the infor description for the materia the bill of lading.	ded purpose or recycle if possible. This material, if it must be discarded, a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or ulations. Measurement of certain physical properties and analysis for hay be necessary to make a correct determination. If this material is s waste, federal law requires disposal at a licensed hazardous waste TION ons shown here are for bulk shipments only, and may not apply to packages (see regulatory definition). domestic or international mode-specific and quantity-specific Dangerous dditional shipping description requirements (e.g., technical name or names rmation shown here, may not always agree with the bill of lading shipping ial. Flashpoints for the material may vary slightly between the MSDS and S A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR
Use material for its inten- may meet the criteria of a other State and local reg regulated components m classified as a hazardous disposal facility. I.TRANSPORT INFORMAT The shipping description shipments in non-bulk Consult the appropriate of Goods Regulations for a etc.) Therefore, the infor description for the materia the bill of lading. USDOT NOT REGULATED A TRANSPORTATION IMO / IMDG	ded purpose or recycle if possible. This material, if it must be discarded, a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or ulations. Measurement of certain physical properties and analysis for hay be necessary to make a correct determination. If this material is s waste, federal law requires disposal at a licensed hazardous waste TION Dons shown here are for bulk shipments only, and may not apply to packages (see regulatory definition). domestic or international mode-specific and quantity-specific Dangerous dditional shipping description requirements (e.g., technical name or names mation shown here, may not always agree with the bill of lading shipping ial. Flashpoints for the material may vary slightly between the MSDS and S A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR BY THIS AGENCY. S A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR
Use material for its inten- may meet the criteria of a other State and local reg regulated components m classified as a hazardous disposal facility. I. TRANSPORT INFORMAT The shipping description shipments in non-bulk Consult the appropriate of Goods Regulations for a etc.) Therefore, the infor description for the materia the bill of lading. USDOT NOT REGULATED A TRANSPORTATION IMO / IMDG NOT REGULATED A	ded purpose or recycle if possible. This material, if it must be discarded, a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or ulations. Measurement of certain physical properties and analysis for hay be necessary to make a correct determination. If this material is s waste, federal law requires disposal at a licensed hazardous waste TION Dons shown here are for bulk shipments only, and may not apply to packages (see regulatory definition). domestic or international mode-specific and quantity-specific Dangerous dditional shipping description requirements (e.g., technical name or names mation shown here, may not always agree with the bill of lading shipping ial. Flashpoints for the material may vary slightly between the MSDS and S A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR BY THIS AGENCY. S A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR

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

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

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

15. REGULATORY INFORMATION

National legislation

Notification status

ite integrite in etailate	
Europe REACH	: On the inventory, or in compliance with the inventory
United States of America US.	SCA : On the inventory, or in compliance with the inventory
Canada DSL	: On the inventory, or in compliance with the inventory
Australia AICS	: On the inventory, or in compliance with the inventory
New Zealand NZIoC	: On the inventory, or in compliance with the inventory
Japan ENCS	: On the inventory, or 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

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					
	American Conference of Government Industrial Hygienists	LOAEL	Lowest Observed Adverse Effect Level		
	Australia, Inventory of Chemical Substances	NFPA	National Fire Protection Agency		
DSL	Canada, Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health		
NDSL	Canada, Non-Domestic Substances List	NTP	National Toxicology Program		

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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
EINECS	European Inventory of Existing Chemical Substances	PEL	Permissible Exposure Limit
MAK	Germany Maximum Concentration	PICCS	Philipines Inventory of Commercial
	Values		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 Cancer	SARA	Superfund Amendments and Reauthorization Act.
IECSC	Inventory of Existing Chemical Substances in China	TLV	Threshold Limit Value
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%		