

VELVETEE R-321K

1. Identification of the substance or mixture and of the supplier

GHS Product Identifier : Velvetee R-321K

Recommended use of the chemical and restrictions and use

Recommended use : Nitrile Glove coating

Recommended restrictions : For industrial use only

Supplier's Details

Distributor Information : Inoova Material Science Sdn. Bhd.

Contact Person : admin@inoova.com.my

Telephone/ Fax : +603-3362 1826

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2. Composition/information on ingredients

Chemical Classification: Aqueous dispersion of carboxylated styrene butadiene copolymer for Nitrile Glove coating.		
Component	CAS No.	Amount
1. Carboxylated styrene/butadiene copolymer dispersion	9003-55-8	> = 19.0 - < = 21.0 %
2. Water	7732-18-5	< = 81.0 - > = 79.0 %

3. Hazardous Identification

General Hazard	May cause skin, eye, respiratory tract irritation and harmful if ingested
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4. First-aid measures

Exposure	First Aid Measures	<p>Inhalation: Move to fresh air. If not breathing, give artificial respiration. Get medical attention.</p> <p>Ingestion: Obtain medical attention. Do not give anything by mouth to an unconscious person.</p> <p>Skin: Remove the contaminated cloths and wash the affected area with plenty of water and soap.</p> <p>Eyes: Irrigate with plenty of water for several minutes. Seek medical aid types of exposures.</p> <p>No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.</p>
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5. Fire and explosion hazard data

Flammability	Yes	[]	Flash Point (Open cup) (°C): NA		LEL (%): NA			
	No	[✓]	Flash Point (Close Cup) (°C): NA		UEL (%): NA			
			TDG Flammability Classification: NA		Auto-Ignition Temperature (°C): NA			
Explosion Sensitivity to Impact			Stable []		Unstable []		Data not available [✓]	
Explosion Sensitivity to Static electricity			Yes []		No []		Data not available [✓]	
Hazardous Combustion Products			Carbon monoxide & Hydrocarbons					
Hazardous Polymerisation			May occur []		Will not occur [✓]			
Combustible liquid:		Yes []	No [✓]	Corrosive material:		Yes []		No [✓]
Explosive material:		Yes []	No [✓]	Organic peroxide:		Yes []		No [✓]
Flammable material:		Yes []	No [✓]	Oxidiser:		Yes []		No [✓]
Pyrophoric material:		Yes []	No [✓]	Others:		Yes []		No [✓]
Suitable extinguishing media: Water spray, dry chemical powder or foam, carbon dioxide. Keep the container cool by spraying water if exposed to heat or flame.								

6. Accidental release measures

Steps to be taken for containment and cleaning up	Recover spilled material. If unable to recover, then proceed with appropriate clean-up. Absorb with sand, sawdust. Collect the material in suitable containers. Wash the surface with water.
Personal precautions, protective equipment and emergency procedures	Use appropriate safety equipment. For additional information, refer to Section 7: Exposure controls and Personal protection.
Environmental precautions	Prevent from entering into soil, ditches, sewers, waterways and/or ground water. Refer to Section: 12 Ecological information.



7. Exposure controls/ personal protection

Exposure limits	None established	
Personal protection	Eye/Face protection	Use safety glasses and face shield.
	Ingestion	Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.
	Skin/Hand protection	Wear clean, body covering cloths. Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Chlorinated polyethylene, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl chloride. Examples of acceptable glove barrier materials include: Butyl rubber, Natural rubber, Neoprene, Nitrile/butadiene rubber. Avoid gloves made up of Polyvinyl alcohol.
	Respiratory protection	Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced or where indicated by your risk assessment process. In misty atmosphere, use an approved particulate respirator. The following should be effective types of air-purifying respirators: Particulate filter.
	Ventilation	Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations

8. Handling and storage

Handling	Keep away from other materials; keep in a cool dry and well-ventilated place. Handle in accordance with good industrial hygiene and safety procedures using protective wear as mentioned. Stir prior to use.
Storage	Store between temperatures of +5°C and 40°C. Keep containers closed when not in use. Protect from freezing and direct exposure to sunlight. Material may develop bacteria odor on long term storage. No safety problems known.

9. Physical and chemical properties

Form	Liquid
Colour	White
Odour	Faint odour
pH value	8.5-9.5
Melting point	Not Applicable
Boiling point (760 mm Hg)	100°C Literature (water)
Freezing point	0°C Literature (water)
Flash point	Not applicable water-based product
Evaporation rate	Similar to water
Specific gravity	0.90 – 1.20
Solubility in water	Partly soluble
Auto ignition temperature	Not applicable water-based product



10. Stability and reactivity

Chemical stability	Stable under recommended storage conditions.
Thermal decomposition	No decomposition if used correctly.
Incompatible materials	Addition of chemicals, such as acids or multivalent metal salts, may cause coagulation.
Hazardous decomposition product	No hazardous reactions when stored and handled according to instructions.

11. Toxicological information

Acute toxicity	Very low toxicity if swallowed. Harmful effect not anticipated from swallowing small amount. For similar material(s): LD50, RAT > 5000MG/KG
Dermal	If product adheres to skin, irritation may occur when it dries. Primary skin irritation rabbit: non-irritant (OECD Guideline 404). Primary irritation of mucous membrane of rabbit: non-irritant (OECD Guideline 405) Prolonged contact may cause slight skin irritation with local redness. May produce an allergic reaction.
Inhalation	No adverse effects are anticipated from single exposure to vapor. Mist may cause irritation of upper respiratory tract (nose and throat), LC 50 has not determined.
Eye irritation	May cause slight temporary eye irritation. Corneal injury is unlikely.
Other relevant toxicity information	Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

12. Ecological information

Toxicity	Based on the information for similar material: material is particularly nontoxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50>100MG/L in the most sensitive species tested).
Persistence and degradability	Polymeric component is not expected to biodegrade.
Bio accumulative potential	No bio concentration of polymeric component expected because of its high molecular weight. Latex dispersion will color water milky white.
Results of PBT and vPvB assessment	Not assessed for persistence, bioaccumulation and toxicity (PBT)
Other adverse effects	No data available

13. Disposal considerations

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR THE MANUFACTURING PROCESS OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITIONS AS DESCRIBED IN MSDS SECTION: Composition information. FOR UNUSED AND UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device.



14. Transport information

Domestic transport	Not classified as a dangerous good under transport regulations
Sea transport (IMDG)	Not classified as a dangerous good under transport regulations
Air transport (IATA/ICAO)	Not classified as a dangerous good under transport regulations

15. Regulatory information

Classification not required

16. Other information

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 2:

T	Toxic
N	Dangerous for the environment.
23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
34	Causes burns.
43	May cause sensitization by skin contact
50/53	Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
40	Limited evidence of a carcinogenic effect

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