

# Material Safety Data Sheet

## Section 1, Product and Company Identification

|                          |   |
|--------------------------|---|
| Product Identification : | Carboxylated Acrylonitrile/Butadiene Copolymer LATEX (NANTEX <sup>®</sup> CNBR LATEX)<br>This MSDS applies to the following products :<br>Nantex 630A, Nantex 630E, Nantex 630N, Nantex 630S, Nantex 639,<br>Nantex 640E, Nantex 672, Nantex 672B |
| Manufacturer             | Nantex Industry Co., Ltd  |
| Company Address/Tel      | No. 9 Industrial 1 <sup>st</sup> Road, Lin-Yuan Kaohsiung, Taiwan, R.O.C /<br>Tel:(886)-(7)-6413621   |
| Emergency Contact:       | Jeremy Wang, Tel: (886)-(7)-6413621ext 221  |

## Section 2, Hazards Identification

|                         |
|-------------------------|
| <b>Classification</b>   |
| Indication of danger: / |
| Other information: /    |

## Section 3, Composition/Information on Ingredients

|                        |  |
|------------------------|--|
| Substance: Mixture     |  |
| Chemical Name :        | Carboxylated Acrylonitrile Butadiene Copolymer Latex                                       |
| Synonymy:              | CNBR Latex   |
| Chemical Group         | Latex  |
| Chemical Structure:    | $-( - CH_2RC(COOH) - )_x-( - CH_2CH=CHCH_2 - )_y-( - CH_2CHCN - )_z-$                      |
| CAS No. :              | /  |
| Hazardous Components : | Acrylonitrile (CAS#107-13-1), less than 1 ppm<br>Butadiene (CAS#106-99-0), less than 1 ppm |

## Section 4, First Aid Measures

|   |
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| Emergency and First Aid Procedures:   |
| · Inhalation : /  |
| · Skin Contact : /  |
| · Eyes Contact : /  |
| · Ingestion: Induce vomiting if possible and get medical attention immediately. |
| The most important signs:/  |
| Protection of first-aiders: /   |
| Notes to a physician: /   |

## Section 5, Fire Fighting Measures

|                               |  |
|-------------------------------|--|
| Extinguishing media           | Water, dry chemical, foam                                      |
| Suitable Exposure Hazards     | Can decompose at high temperatures forming toxic gases.        |
| Fire Fighting Procedure       | Wear positive air respiratory and avoid contacting toxic gases |
| Special Protection Equipment: | Wear positive air pressure respiratory.                        |

## Section 6, Accidental Release Measures

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| Personal Protection:/   |
| Environment Protection: This material is not specified as hazardous material, the disposal of material need to follow the local government's law. |
| Method for Cleaning Up: In case of spillage, clean up by picking up big lumps and remove the fines with sweeping tools.                           |

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## Section 7, Handling and Storage

|            |   |
|------------|---|
| Handling : | Decomposed gases may be released during the heat generated by the processing. Wear proper protection equipment at work and keep the work place well ventilated. |
| Storage    | Stored in dry, open space. Avoid of direct sunlight.  |

## Section 8, Exposure Control and Personal Protection

|   |  |          |   |   |
|---|--|----------|---|---|
| Engineering Control                                     | Use of ventilation system  |          |   |   |
| Control Parameters: TWA/STEL/CEILING                    |  |          |   |   |
|   | CAS NO.  | Contents | TWA/STEL/CEILING  |   |
|   |  |          | ACGIH TLV   | OSHA PEL                                    |
| Acrylonitrile   | 107-13-1   | < 1ppm   | 2 ppm(A2)   | 2 ppm (TWA)<br>10 ppm (STEL)                |
| Butadiene   | 106-99-0   | < 1ppm   | 2 ppm(A2, Skin)   | 1 ppm (TWA)<br>0.5 ppm (AL)<br>5 ppm (STEL) |
| Remarks:  | *1. TLV: Threshold Limit Value.<br>*2. TWA: Time Weighted Average.<br>*3. AL: Action level.<br>*4. ACGIH: American Conference of Governmental Industrial Hygienists.<br>*5. OSHA :Occupational Safety & Health Administration. |          | *6. A2 means "Cancer suspect agent".<br>*7. OSHA PEL: OSHA Permissible Exposure Limit, 8-hour TWA.<br>*8. STEL: Short term exposure limit.<br>*9. Skin: Skin contact may be a significant route of exposure.<br>*10. Ceiling: High the admissible concentration |   |
| Personal Protection:                                    |  |          |   |   |
| Respiratory Protection:                                 | Wear musk  |          |   |   |
| Hand Protection   | Wear Gloves  |          |   |   |
| Eye Protection  | Wear safety goggles  |          |   |   |
| Skin & Body Protection                                  | Wear working clothes   |          |   |   |
| Hygiene Procedures: Wash hand thoroughly after handling |  |          |   |   |

## Section 9, Physical & Chemical Properties

|                                   |   |
|-----------------------------------|---|
| Appearance: Liquid                | Form: /   |
| Color: White to cream             | Odor: Mild odor                                     |
| Decomposition Temperature: >200°C | Boiling Point/ Boiling Range: 100°C                 |
| pH value : 7.3-8.6                | Flash Point: /<br>Test Method: /                    |
| Autoignition Temperature: /       | Explosion Limits: /                                 |
| Vapor Pressure : 17 mmHg          | Vapor Density: 0.62 (water)                         |
| Specific Gravity: 0.95-1.05       | Solubility: Polymer is insoluble & Latex is soluble |

## Section 10, Stability and Reactivity

|   |   |
|---|---|
| Stability:                                | Stable  |
| Special Conditions of Hazardous Reaction: | Processing of the material in high temperature may release butadiene or acrylonitrile monomers.   |
| Conditions to Avoid:                      | Keep away from high temperature and fires.  |
| Incompatibility:                          | May react with strong oxidizers.  |
| Hazardous Decomposition Products:         | CO, CO <sub>2</sub> and small amounts of oxides of nitrogen, aromatic and aliphatic hydrocarbons. |

## Section 11, Toxicological Information

|                     |   |
|---------------------|---|
| Acute Toxicity:     | No hazard likely  |
| Local Effects:      | No hazard likely  |
| Sensitive:          | Not expected to be a sensitizer   |
| Chronic:            | No hazard likely  |
| Exceptional Effect: | Still contains trace amount of residual monomer, may released by the processing operation temperature. Operate in well ventilated area to avoid the risk. |

# NANTEX® CNBR LATEX

## Section 12, Ecological Information

|                           |
|---------------------------|
| Ecological Toxicity : —   |
| Persistent : —            |
| Accumulation : —          |
| Mobility in Soil : —      |
| Other Adverse Effects : — |

## Section 13, Disposable Information

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| Dispose according to relative regulations. |
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## Section 14, Transport Information

|                                      |   |
|--------------------------------------|---|
| International transport regulation : | / |
| The United Nations Number (Un-No):   | / |
| Transportation Category :            | / |
| Packaging Category :                 | — |
| Marine Pollutant (Y/N) :             | N |
| Special Transport Way and Notes :    | — |

## Section 15, Regulation Information

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| This product is not considered hazardous under the OSHA Hazard Communication Standard CFR Title 29, Part 1910.1200 or the WHMIS Canadian Legislation. |
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## Section 16, Other Information

|         |  |                 |
|---------|--|-----------------|
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|         | Title: Chemist   | Name: Roland Lo |
| Date    | February, 2010   |                 |
| Remarks | "—" represents no available information;<br>"/" represents not applicable  |                 |

### User's Responsibility :

This bulletin cannot cover all possible situations, which the user may experience during processing. Each aspect of user's operation should be examined to determine if or where additional precautions may be necessary.

### Disclaimer of Liability:

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