

**Safety Data Sheet –September 23, 2016**

According to Regulation EC No 1907/2006 - REACH and Regulation EC No 1272/2008 - CLP

**S1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1. Product identifier**

Commercial name	Arlatex 1919NC
Use of the Preparation	Latex designed to be used in modifying asphalt emulsions.
N° CAS	9003-55-8

**1.2. Details of the supplier of the safety data sheet**

Company	INDUSTRIAS NEGROMEX S.A DE C.V.
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E-mail address	julio.quevedo@dynasol.com
Date	September 23, 2016
Modification date	-
Revision number	-

**1.3. Emergency telephone number**

Emergency telephone number	(+52)-833-229-03-45
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**S2 HAZARDS IDENTIFICATION**

**2.1. Emergency Overview**

Some fumes may be released upon heating or cross linking and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect his employee from exposure.

**2.2. Health effects and symptoms**

Inhalation	May cause irritation of the respiratory tract due to the presence of small amounts of ammonia.
Skin contact	Prolonged and repetitive exposure to the material may cause irritation.
Eye contact	May cause irritation due to the presence of small amounts of ammonia.

Ingestion

Low toxicity. May cause mouth, esophagus and gastrointestinal tract irritation.

Sensitization

No cases of sensitization in humans have been reported.

Chronic

Not hazardous.

Environmental effects

No significant environmental hazards are associated with this rubber release to the environment.

See section 11 for more detailed information on health effects and symptoms.

### S3 COMPOSITION/INFORMATION ON INGREDIENTS

Product definition (REACH):

Preparation

<b>Styrene – Butadiene Rubber</b>		
No. CAS	No. EINECS	% by weight
9003-55-8		45.6%

<b>Additives</b>		
No. CAS	No. EINECS	% by weight
		1.4%

<b>Water</b>		
No. CAS	No. EINECS	% by weight
7732-18-5	231-791-2	53%

#### Additional regulatory information

Monomer	REACH registration
Butadiene	01-2119471988-16-0132
Styrene	01-2119457861-32-0089

This product contains no hazardous ingredients as defined under the criteria of the Federal OSHA Hazards Communication Standard 29 CFR 1910, 1200.

## S4 FIRST AID MEASURES

### Inhalation

- In case of asphyxia or a feeling of illness, after accidental exposure to fumes, which can be formed at high temperatures, remove the affected person into fresh air. Keep the victim at rest and in warm.
- If victim experiences breathing difficulties or loss of consciousness, give artificial respiration. Seek medical advice immediately.

### Skin contact

- In case of burns caused by molten material, treat the affected part with running cold water (by spraying or immersion, for instance). No attempt should be made to detach polymer adhering to the skin or remove clothing stained with molten material. Cover the burnt areas with a cotton compress or sterilized gauze compresses.
- Seek medical advice immediately.

### Ingestion

- Seek medical advice.

### Eye contact

- In case of irritation, wash with copious volumes of water until irritation disappears.
- Seek medical advice, if necessary.

## S5 FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable extinguishing media

- Carbon dioxide or dry chemical powder. Water sprays (fog).

#### Unsuitable extinguishing media

- Not specific information available.

### 5.2. Special exposure hazards

No specific fire or explosion hazard. Promptly insolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

### 5.3 Hazardous combustion products

On combustion or when overheated forms Carbon dioxide, low molecular weight hydrocarbons and fumes.

### 5.4 Special protective equipment for fire - fighters

Normal work clothing (cotton, cotton 65%-polyester 35%). If contact with hot materials is possible, wear heat-insulating and chemicals proof gloves as well as face shield.

## S6 ACCIDENTAL RELEASE MEASURES

Personal precautions  
Environmental precautions  
Methods for cleaning

No special measures required.

No special measures required.

In soil:

- Recover the spilled material and place it in marked containers to facilitate its reuse or disposal. Dispose in a safe manner in accordance with local or national regulations. Use sodium chloride or calcium chloride; add a 5% solution of aluminum sulphate or magnesium sulphate to coagulate the latex for easier cleaning with water.

On water:

- Stop the leakage and prevent the spilled material from spreading. If the material has flowed out in a stream or a sewer, inform the authorities of the possible presence of floating matter. Clean up the water surface by creaming. Refer to a specialist for water disposal in a safe manner in accordance with local or national regulations. Coagulated latex wastes are NON HAZARDOUS.

Note: Handle as solid waste disposal, store it in an approved land disposal site in accordance with applicable local, state or federal regulations.

## S7 HANDLING AND STORAGE

### 7.1. Handling

None under normal conditions of use. Use adequate ventilation. When handling tanks, it is recommended to store indoors, avoiding extreme temperatures; material must be stored at temperatures between 16 to 25° C. Once the tank is open, product must be consumed in a time no longer than 72 hours. In bulk handling, storage tanks can be of carbon steel, stainless steel or fiberglass / polyester.

### 7.2. Storage

Do not store near flammable materials. Store away from heat sources. Avoid static electricity buildup. All storage equipment should be provided with connections to earth. Store in a dry, well-ventilated area. Avoid dust buildup. Store out of sunlight or other sources of heat radiation. Protect from freezing. Maximum product storage time is 6 months.

### 7.3. Packaging materials

Recommended: Use original container

**8.1. Exposure limit values**

United States	ACGIH-TLV: 5 mg/m <sup>3</sup> (Recommended for polymer dust).
European Community	Not Determined.
France	Not Determined.
United Kingdom	Not Determined.
Denmark	Not Determined.
Belgium	Not Determined.

**8.2. Recommended monitoring procedures**

Organic vapour.

**8.3. Risk management measures**

## Technical measures

- Maintain good ventilation over production process.

**Individual protection measures, such as personal protective equipment**

## Respiratory protection

- Not required under normal operating conditions.
- In case of risk of overexposure to fumes, or when normal precautions are insufficient, wear suitable respiratory equipment such as combination of filter type A2 B2-P2 following DIN 3181.

## Eye/face protection

- Avoid dust contact with eyes. Use safety glasses/goggles/spectacles.

## Hygiene measures

- Safety slip proof shoes in areas where spills or leaks can occur.

## Skin protection

- Normal work clothing (cotton, cotton 65% - polyester 35%). Avoid dust buildup on skin, which could cause abrasive irritation. If contact with hot materials is possible, wear heat-insulating and chemicals proof gloves as well as face shield.

## Hand protection

- Use of natural rubber gloves. Neoprene or leather.

**8.4. Environmental exposure controls**

## Technical measures

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## S9 | PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Appearance

Physical state	Liquid
Colour	White
Odor	Slightly ammonia

### 9.2. Important health, safety and environmental information

Vapour pressure	Similar to water
pH @ 25°C	4.0 – 5.0
Boiling point / Boiling range	100° C
Evaporation rate	Similar to water
Melting point / Melting rate	Not determined
Brookfield Viscosity (LVT#2, 30 rpm)	1000 cPs max.
Water solubility	Soluble
Partition coefficient	Not determined
Molecular weight	>20,000
Specific gravity	Not determined
Percent volatile	Not determined
Relative density	1.0 ± 0.01 (water = 1.0)

## S10 | STABILITY AND REACTIVITY

### 10.1. Reactivity

Stable.

### 10.2. Chemical stability

Stable at ambient temperatures and pressures.

### 10.3 Conditions and materials to avoid

Protect from freezing. Avoid salts or acids. Strong oxidizers or fluorine.

### 10.4 Hazardous decomposition products

Carbon dioxide, carbon monoxide, low molecular weight hydrocarbons.

### 10.5 Hazardous polymerization

Will not occur.

## S11 TOXICOLOGICAL INFORMATION

None toxicity on animals is registered, so the Butadiene – Styrene copolymer is regarded as biologically inert.

## S12 ECOLOGICAL INFORMATION

Aquatic toxicity	Not determined.
Mobility	Not determined.
Persistence and degradability	Not determined.
Bio-accumulative potential	Chemicals are not readily available as they are bound within the matrix of the polymer.
Behavior in water treatment plants	Suspended solids (flotation).

Wastes from the aqueous emulsion must be confined in containers to prevent their discharge to lakes, rivers or drainage. The pH value should be reduced to 4 to 5 with sulfuric acid and then add a dissolution of aluminium sulphate at 15% by weight at a speed of 2 lts min. Take samples every five minutes to see how the clot and clarity of the water remaining. Once the addition of coagulating, should mesh filter tributary # 100, could dispose of the resulting clots as non-hazardous material according to CRP NOM-001 ECOL/1993.

## S13 DISPOSAL CONSIDERATIONS

### 13.1. Methods of disposal of the preparation

Do not dispose of by means of sinks, drains or sewers or in the immediate environment. For disposal within the EC the appropriate code according to the European Waste List (EWL) should be used. It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the European Waste List (EWL).

### 13.2. Methods of disposal of the contaminated packaging

Where possible recycling is preferred to disposal. Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

## S14 TRANSPORT INFORMATION

This material is not considered a transportation hazard under applicable ground, air or water regulations

UN number	None.
Class	Not classified.
Proper shipping name	Not classified.
Packing group	Not classified.
Marine group	Not classified.
International transportation identification	Not classified.
U.S. Rail Regulations	Not classified.

## S15 REGULATORY INFORMATION

### Canada

- DSL (Domestic Substances List): Listed.
- NDSL (Non Domestic Substances List).

### Korea

- KECI (Korean Existing Chemicals Inventory): Listed.
- ECTL (Environmental Control Technology Laboratory).

### Philippines

- PICCS (Philippine Inventory of Chemicals and Chemical Substances): Listed.

### Switzerland

- Swiss Chemical Inventory
- ERMA (European Resin Manufacturers Association).

### EU

- EINECS (European Inventory of Existing Chemical Substances): No Listed.

### US

- OSHA (Occupational Safety and Health Administration): Listed.
- TSCA (Toxic Substances Control Act): Listed.
- CERCLA reportable qty: None.
- SARA TITLE III: Section 302 None (Extremely hazardous substances); Section 311/312 None (Hazard categories); Section 313 None (Toxic chemicals).

### Mexico

- STPS (Secretaria de Trabajo y Previsión Social) No listed.

### Japan

- ENCS (Existing and New Chemical Substances): Listed.
- MITI (Ministry of International Trade and Industry).

### Australia

- AICS (Australian Inventory of Chemical Substances): Listed.

### China

- IECS (Inventory on Existing Chemical Substances): Listed.

### New Zealand

- NZIoC (New Zealand Inventory of Chemicals)

### RoHS & Food Contact Regulations

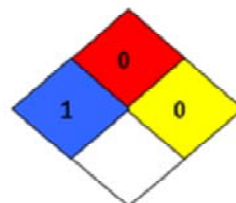
Do not contain intentionally introduced Lead (Pb), Cadmium (Cd), Mercury (Hg) or Hexavalent Chromium (Cr+6) an unintentional inclusion is < 0.1 % lead, mercury, or chromium and < 0.01 % cadmium by weight. This Rubber is in compliance with the restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS regulations) Directive 2002/95/EC and 2003/11/EC.



## HMIS

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>REACTIVITY</b>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<b>B</b>

## NFPA



## LEVEL OF RISK

- 0 MINIMAL
- 1 SLIGHT
- 2 MODERATE
- 3 SERIOUS
- 4 SEVERE

## European Facilities

None

## Aclaration

The information given in this document has been compiled based on the best existing information sources, latest available knowledge and according to the current requirements on classification, packaging and labelling of hazardous substances. It does not imply the information is exhaustive or accurate in all cases. It is the user's responsibility to determine the validity of the information contained in this Material Safety Data Sheet to apply depending on the case.