



MATERIAL SAFETY DATA SHEET

NATURAL RUBBER CONCENTRATED LATEX

MATERIAL IDENTIFICATION

Centrifuged Natural Rubber Latex Preserved with Ammonia
High ammonia (HA)
Low Ammonia (LA)
Intended for use: Dipping and adhesive latex products.
CAS -Number 9006-04-6, 7664-41-7

COMPOSITION/ INGREDIENT INFORMATION

Chemical/Common Name	CAS-Number	%	Hazard Classification
Natural Rubber (cis 1,4 poly isoprene)	9006-04-6	61-62%@solid	None noted
Ammonia	7664-41-7	0.29-0.60%@solution	2.3 (Non-Degree)

HAZARDS IDENTIFICATION

Emergency Overview	Centrifuged Natural rubber latex preserved with ammonia.
Potential Acute Health Effects	Ammonia vapors may cause burning eyes, runny nose, coughing and possible chest pain
Potential Chronic Health Effects	No know carcinogenic, mutagenic, teratogenic effects. Repeated or prolonged exposure is not known to aggravate medical conditions



FIRST AID MEASURES

Skin	Wash with warm water and mild soap. Seek medical advice if symptoms persist
Eye	Irrigate with water, lift lids occasionally. Seek medical aid.
Inhalation	If inhaled, provide fresh air. If not breathing, give artificial respiration. Seek medical assistance
Ingestion	Give plenty of water to drink and if necessary seek medical advice. Do not induce vomiting.
General Advise	General Advice Ammonia vapors may cause burning eyes, runny nose, coughing and possible chest pain.

FIRE FIGHTING MEASURES

Flammability	Yes TM		
Flammability conditions	Heat/Oxidation		
Extinguishment Means	Water sprinkler / foam, CO2 or dry chemical extinguishers		
Special Procedure	None		
Flash Point and Method	Upper Explosion limit (% by Volume)	Lower Explosion limit (% by Volume)	
Unknown	Unknown	Unknown	
Auto Ignition Temperature	TDG Flammability Classification	Hazardous combustion Product	
Unknown	Unknown	Carbon Monoxide	
Sensitivity to Chemical Impact	Rate of Burning	Explosive Power	Sensitivity to Static Discharge
Unknown	Varies	Unknown	Unknown



ACCIDENTAL RELEASE MEASURES

Spill or Leak Precautions	Wear appropriate protective clothing, gloves and equipment. Collect spilled material by sweeping up solids and disposing of according to local regulations for this type of product. Major spills should be reported to the National Response Center. Spills with potential to contaminate coastal waterways must be reported to the appropriate and relevant government offices.
Provision for Ventilation	Care should be taken to ensure that atmosphere concentration of ammonia in working environment is reduced. Working areas should be well ventilated.
Environment Precautions	It is recommended that the latex be coagulated with acid and the serum neutralized.

HANDLING AND STORAGE

Handling	Ensure good ventilation in the workplace. Keep containers tightly sealed. Take personal protection measures. Latex creams on standing and should be homogenized before use and especially before sampling and testing. (There are internationally recognised procedures for both sampling and testing). Drums should be rolled before use. Bulk latex should be stirred, preferably with a high-speed electric stirrer under conditions which do not lead to the extensive entrapment of air
Storage	Protect against extreme climatic conditions and store in a well-ventilated area. It is recommended to store the latex between 15° and 20°C. Latex is subject to freezing: avoid low temperature storage (below 7°). If latex is accidentally frozen, store the drums in a room at ambient temperature for some time, but without stirring. Avoid contact with oxidative catalysts. Equipment used for latex must be cleaned regularly to avoid development of micro-organisms.

EXPOSURE CONTROL AND PERSONAL PROTECTION

Personal Protective Equipment		Clothing when processing	
Gloves (specify)	Respiratory (specify)	Eyes (specify)	Footwear (specify)
Yes	Yes	Yes	Yes
Clothing (specify)	Other (specify)		
Yes	Protective clothing to prevent prolonged exposure to skin		



PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Odour	Ammonia odour
Appearance	Milky liquid
Odor Threshold	NA
Specific Gravity	0.95-0.96
Vapor Pressure	730 mm hg
Vapor Density (air=1)	NA
Evaporation Rate	NA
Boiling Point	100C TM
Freezing Point	0C
Solubility in Water (20 C)	NA
pH	9.0 - 11.0 approx.
Density (g/ml)	about 0.95
Water/Oil Distribution	NA



STABILITY AND REACTIVITY

Chemical Stability	Yes
Incompatibility to other products	Heavy Metals (Cu) acting as pre-oxidants.
Reactivity and under what conditions	Starts to decompose above 200°C, finally emitting vapours which may be toxic and flammable at temperatures near 300°C
Hazardous Decomposition Product	Isoprene derivations: carbon monoxide

TOXICOLOGY PROPERTIES OF PRODUCTS

Route of Entry	Ingestion
LD50 of Product (Route)	Unknown
Irritancy of Product	Unknown
Exposure Limit of Product	Unknown
LD50 of Product (Species)	Unknown
Sensitization of Product	Unknown
Synergistic Material	Unknown

ECOLOGICAL PROPERTIES OF PRODUCT

Avoid contaminating waste water with latex.
This product is not expected to present an environmental hazard. Ecological or environmental effects unknown.

WASTE DISPOSAL OF PRODUCT

Recycle where possible, otherwise observe local regulations.
Latex or water containing latex must be stored in a settling-down tank, then coagulated with aluminium sulphate, iron or calcium chloride, or similar material. An absorbent material may also be used. After coagulation/absorption, shovel into appropriate container for disposal in accordance to state and local environmental control regulations.



TRANSPORT INFORMATION OF PRODUCT

There are no special regulations for the transportation of latex
Recommended coating for tanks: steel, inox
Recommended coating for drums: epoxy resins

REGULATORY INFORMATION

Product does not contain a SARA S-313 toxic chemicals above DE minimal thresholds.
Natural Rubber is NOT considered hazardous under OSHA hazard communication standard 29 CFR 1910.1200 or the WHMIS Canadian Legislation.

SOURCES USED

BRMA Toxicity and Safe Handling of Rubber Chemicals; British Rubber Manufacturers Associations. Health and Safety; Malaysian Natural Rubber.

OTHER INFORMATION

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