

MATERIAL SAFETY DATA SHEET

(In Accordance with 29 CFR 1910.1200)

PRODUCT IDENTITY: STYLE 362 WHITE NITRILE

CHEMICAL IDENTITY: NITRILE RUBBER FORMULATION

SECTION I - MANUFACTURING INFORMATION

MANUFACTURED BY:
Garlock Rubber Technologies
P.O. Box 1000
201 Dana Drive
Paragould, AR 72450

EMERGENCY TELEPHONE #: (870) 239-4051

DATA PREPARED: 4-03-89
REVISION DATE: October 15, 1999
CONTACT: Jason Shipman/Tech. Dept.

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS

EXPOSURE LIMITS

AMOUNT

CHEMICAL IDENTITY/CAS#/UN#	OSHA		ACGIH	OTHER	AMOUNT
	PEL-TWA	TLV-TWA	TLV-TWA		
Talc CAS# 14807-96-6	20 mppcf	2 mg/m ³	2 mg/m ³	N/A	% < 0.1% (surface dust)
Di (2-ethylhexyl) phthalate (See Section X)	5 mg/m ³	5 mg/m ³	5 mg/m ³	N/A	< 15.0%

This compound is a proprietary formulation from the Boston Industrial Products manufacturing operations, thus the chemical constituency is considered confidential. Therefore, this formulation and other similar Boston Industrial Products formulations are exempt from disclosure requirements pursuant to the Freedom of Information Act.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: N/A
FREEZING POINT: N/A
VAPOR PRESSURE (mmHg): N/A
VAPOR DENSITY (AIR=1): N/A
APPEARANCE AND ODOR: White - Slight odor

SPECIFIC GRAVITY (H₂O=1): 1.26 +/- 0.03
pH: N/A
EVAPORATION RATE: N/A
SOLUBILITY IN WATER: INSOLUBLE

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method): N/A

FLAMMABLE LIMITS LEL: N/A UEL: N/A

EXTINGUISHING MEDIA: Water Spray, Foam, CO₂, Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None Known

HAZARDOUS COMBUSTION PRODUCTS: Various elemental oxides (C,N,S,) and uncombusted hydrocarbons

SECTION V - REACTIVITY DATA

STABILITY

UNSTABLE:

STABLE: X

CONDITIONS TO AVOID: Very high temperatures

INCOMPATIBILITY (Materials to Avoid): Strong oxidizers and reducing agents

HAZARDOUS DECOMPOSITION BY-PRODUCTS: Various elemental oxides (C,N,S) and uncombusted hydrocarbons

HAZARDOUS POLYMERIZATION

MAY OCCUR:

WILL NOT OCCUR: X

CONDITIONS TO AVOID: None

SECTION VI - HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE

INHALATION: SLIGHT
EYE CONTACT: SLIGHT

SKIN CONTACT: SLIGHT
INGESTION: UNKNOWN

HEALTH HAZARDS

ACUTE: Contact with eyes and skin may cause irritation in certain individuals, Inhalation may irritate the respiratory tract.

CHRONIC: Talc may contain crystalline silica at levels > .1% < 1%. IARC has determined that there is limited evidence for the carcinogenicity of crystalline silica to humans and sufficient evidence for experimental animals. Long term excessive exposures may cause severe and/or permanent lung damage.

CARCINOGENICITY:

Crystalline silica
Di (2-ethylhexyl) phthalate
(See Section X)

NTP
None
Same

IARC
Probable Human (Group 2A)
Possible Human (Group 2B)

OSHA
None
None

SIGNS AND SYMPTOMS OF EXPOSURE: See chronic health hazards

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Breathing of talc dust may aggravate the cardiovascular system and the lungs.

SECTION VII - FIRST AID MEASURES

INHALATION: Remove from exposed area.

SKIN CONTACT: Wash from skin with soap and water. Remove and launder contaminated clothing before reuse.

EYE CONTACT: Flush with plenty of water for at least 15 minutes. Hold eyelids apart to ensure flushing of the entire eye surface. If irritation persists, seek medical attention.

INGESTION: If conscious, give large quantities of water to induce vomiting. Hold head below hips to prevent aspiration. Get medical attention.

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Avoid dust generation. Sweep, scoop, or place in a suitable container for reuse or disposal.

WASTE DISPOSAL METHOD: Dispose of in accordance with all Federal, State, and local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: See Section IX.

OTHER PRECAUTIONS: None

SECTION IX - CONTROL MEASURES

RESPIRATORY PROTECTION: (Specify Type) A NIOSH/MSHA approved dust/mist respirator for concentrations above the OSHA PEL limits.

VENTILATION

LOCAL EXHAUST: Recommended

MECHANICAL (General): If dust level reaches above PEL or TLV levels

PROTECTIVE GLOVES: Recommended

EYE PROTECTION: Safety glasses recommended

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None

WORK/HYGIENIC PRACTICES: Practice good hygiene by washing thoroughly before eating and/or smoking.

SECTION X - ADDITIONAL INFORMATION

The Occupational Safety and Health Administration requires that if a material is considered carcinogenic and is added in a quantity greater than 0.1% to a mixture, then the mixture as a whole must be labeled in accordance with that hazard. Although Boston Industrial Products has no reason to believe that a hazard exists once the oils (Section II) are added and cured into the rubber matrix, we recommend that precautions be taken.

The following ingredients of this mixture are reportable as listed under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR 372

COMPOUND

CAS#

PERCENT %

Zinc Compound
Di (2-ethylhexyl) phthalate

None
117-81-7

< 1.5%
< 15.0%

This compound contains all FDA approved ingredients as listed under 21 CFR 177.2600, 1993 ed.