



Date Issued: 03/17/11
Date Revised: 03/17/11
Rev #: 1
MSDS#: 0053

MATERIAL SAFETY DATA SHEET

ULTRA RUBBER PISTONS - BUNA

Identity Copolymer of butadiene and acrylonitrile Nitrile elastomer

Used in manufacturing EFD part numbers:

7017813 - PISTON U 5CC GY BUNA 7017873 - PISTON U 10CC GY BUNA
7017958 - PISTON U 30/55CC GY BUNA

Section I

Manufacturer's Name
Proprietary

For Additional Information:

Phone: 401-431-7000
800-556-3484
Fax: 401-431-7079
www.nordsonefd.com

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Acrylonitrile Butadiene Rubber				<41.8%
Silicon Dioxide				<93%
Diisononyl phthalate /DINP				< 9%
Carbon Black				< 5%
Zinc Oxide				< 3%
Sulfur				<0.2%
Tetra Methylthiuram Disulfide / TMTD				< 1%

Section III – Hazards Identification

Hazard designation: void

Information pertaining to particular dangers for man and environment: The product does not have to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system: The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

Section IV – First Aid Measures

General information. No special measures required.

After inhalation, supply fresh air.

After skin contact, instantly wash with water and soap and rinse thoroughly.

After eye contact, rinse opened eye for at least 15 minutes under running water.

After swallowing, rinse out mouth and then drink plenty of water.



Section V - Fire Fighting Measures

Suitable extinguishing agents – CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.
Special hazards caused by the material, its products of combustion or resulting gases – can be released in case of fire – hydrogen chloride (H01), Carbon Monoxide (CO), Sulphur dioxide (SO₃)
Protective equipment – wear self-contained breathing apparatus.

Section VI – Accidental Release Measures

Person-related safety precautions – use breathing protection against the effects of fumes/dust/aerosol.
Measures for environmental protection – no special measures required.
Measures for cleaning/collecting – collect mechanically. Send for recovery or disposal in suitable containers
Additional information – no dangerous materials are released.

Section VII - Handling and Storage

Handling Information for safe handling – no special measures required. Use appropriate industrial vacuum cleansers or central vacuum systems for dust removal. Precautions against electrostatic charging. Keep away from heat and direct sunlight. Prevent formation of dust.

Storage Requirements to be met by storerooms and containers – Keep container tightly closed in a cool and dry place.
Information about storage in one common storage facility – Store away from foodstuffs.
Further information about storage conditions – Max. storage temperature - 25°C.

Section VIII – Exposure Controls and Personal Protection

Additional information about design of technical systems – No further data; see item 7.

Components with limit values that require monitoring at the workplace:

14807-96-0 Talc (Mg₃H₂(S₁₀)₂)₄
OES / Long-term value: 1 mg/m³
Respirable dust

Personal protection equipment

General protective and hygienic measures – Keep away from foodstuffs, beverages and food

Breathing equipment – In case of brief exposure or low pollution, use breathing filter apparatus. In case of intensive or longer exposure, use breathing apparatus that is independent of circulating air.

Protection of hands – The glove material has to be impermeable and resistant to the product / the substance / the preparation.

Eye protection – safety glasses.

Body protection – light weight protective clothing.

Section IX – Physical and Chemical Properties

General Information

Form:

Solid

Color:

Chips

Cream colored

Odor:

Light Brown

Weak, characteristic

Change in condition

Melting point / Melting range:

Not determined

Boiling point / Boiling range:

Not applicable

Flash Point

Not applicable

Inflammability (solid, gaseous)

Product is not easily inflammable

Danger of explosion

Product is not explosive

Density at 20 °C

1/23 g/c m³

Solubility in / Miscibility with Water

Insoluble

Organic solvents

Soluble in many organic solvents



Section X – Stability and Reactivity

Thermal decomposition / conditions to be avoided – No decomposition if used according to specifications
Dangerous reactions – No dangerous reactions known
Dangerous products of decomposition – No dangerous decomposition products known

Section XI – Toxicological Information

Acute toxicity
Primary irritant effect
 On the skin – No irritant effect
 On the eye – No irritant effect
Sensitization – No sensitizing effect known
Additional toxicological information – When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
The Product contains – Rosin

Listings

USA TSCA (Toxic Substances Control Act)
8052-10-6 Rosin
14807-96-6 Talc ($Mg_3H_2(SiO_3)_4$)

Section XII – Ecological Information

General notes – Water hazard class 1 (German Regulation) (Self-assessment) : low hazard to waters.

Section XIII – Disposal Considerations

Product Recommendation - Remove according to local authority recommendations, e.g. convey to a licensed incinerator.

European waste catalogue
07 02 99 – wastes not otherwise specified

Section XIV – Transport Information

Land Transport – ADR/RID
ADR/RID Class

Transport/Additional information – No dangerous good according to international transport regulations. Temperature for transport - 25 °C.
Keep away from foodstuff.

Section XV – Regulatory Information

Designation according to EC guidelines - The material is not subject to classification according to EC lists and other sources of literature known to us. Observe the normal safety regulations when handling chemicals.

Safety phrases – 13 Keep away from food, drink and animal feeding stuffs. 22 Do not breathe dust.

Section XVI – Other Information

This data is based on our present knowledge. However, it shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R-Phrases – 43 May cause sensitization by skin contact.