# National Bentonite

## PRODUCT IDENTIFICATION

- **Supplier:** NL Baroid/RL Industries, Inc.
- **Address:** P.O. Box 1675, Houston, Texas 77251
- **Trade Name:** NATIONAL® BENTONITE
- **Generic Description:** Wyoming Bentonite, Sodium Montmorillonite - Various Particle Size Gradations

## HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Material or Component</th>
<th>Hazard Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica 7631-86-9</td>
<td>2-5% Low Concentrations of Crystalline Silica (SiO₂) in the form of Quartz, Cristobalite, and Tridymite. May be present (See Section V)</td>
</tr>
</tbody>
</table>

## PHYSICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point (*F)</td>
<td>NA</td>
</tr>
<tr>
<td>Specific Gravity (H₂O × 1)</td>
<td>2.5</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>NA</td>
</tr>
<tr>
<td>Vapor Density (Air × 1)</td>
<td>NA</td>
</tr>
<tr>
<td>Solubility in H₂O, % by wt.</td>
<td>NA</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>Light Tan to Gray Solids, No Odor</td>
</tr>
<tr>
<td>Density @ 20°C</td>
<td>47 lbs/cubic foot</td>
</tr>
</tbody>
</table>

NA = Not Applicable  ND = Not Determined

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All information and recommendations contained herein concerning our product are based upon tests and data believed to be reliable; however, it is the user's responsibility to determine the safety, toxicity, and suitability of the product for his own use. No guarantees, expressed or implied, are made by NL Petroleum Services, Inc. as to the effects of such use. The results so obtained are subject to change, and the user should consult the manufacturer or supplier for current information. NL Petroleum Services, Inc. assumes no liability for any use of this material by anyone other than the holder of this document. The material in this document is intended to be representative of the product. It is not intended to be complete. NL Petroleum Services, Inc. reserves the right to make changes in any product without notice.
IV FIRE AND EXPLOSION DATA

NATIONAL BENTONITE IS NOT FLAMMABLE AND NOT EXPLOSIVE. DOES NOT SUPPORT COMBUSTION.

EXTINGUISHING MEDIA: WATER

V HEALTH HAZARD INFORMATION

CARCINOGENICITY — SEE ROUTES OF EXPOSURE AND EFFECTS (BELOW)

<table>
<thead>
<tr>
<th>ACUTE ORAL LD₅₀</th>
<th>ACUTE DERMAL LD₅₀</th>
<th>AQUATIC TOXICITY (LC₅₀)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ND</td>
<td>ND</td>
<td>ND</td>
</tr>
</tbody>
</table>

ROUTES OF EXPOSURE AND EFFECTS

THIS PRODUCT CONTAINS FREE CRYSTALLINE SILICA WHICH ACCORDING TO THE IARC HAS EXHIBITED LIMITED EVIDENCE OF CARCINOGENICITY IN HUMANS.

TLV FOR RESPIRABLE DUST

\[
\text{10 mg/m}^3 \quad \frac{\% \text{ RESPIRABLE QUARTZ}}{+2}
\]

TLV FOR "TOTAL DUST"

\[
\text{30 mg/m}^3 \quad \frac{\% \text{ QUARTZ}}{+3}
\]

IF CRISTOBALITE OR TRIDYMITE IS DETECTED, USE ONE-HALF THE VALUE CALCULATED FROM FORMULAE FOR QUARTZ

SKIN: POTENTIAL IRRITANT
EYES: IRRITANT
INHALATION: IRRITATION TO LUNGS, NOSE, AND THROAT; PROLONGED INHALATION MAY RESULT IN SILICOSIS, A NONCANCEROUS LUNG DISEASE.

EMERGENCY AND FIRST AID PROCEDURES

SKIN: FLUSH SKIN WITH LARGE AMOUNTS OF WATER
EYES: FLUSH EYES WITH WATER AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, CONTACT PHYSICIAN
INHALATION: MOVE TO FRESH AIR
**VI REACTIVITY DATA**

**CONDITIONS CONTRIBUTING TO INSTABILITY**

THIS PRODUCT IS STABLE UNDER NORMAL DRILLING CONDITIONS.

**INCOMPATIBILITY**

NONE

**HAZARDOUS DECOMPOSITION PRODUCTS**

NONE

**CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION**

NONE

**VII SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED**

NORMAL HOUSEKEEPING, CAUSES SLIPPERY SURFACES WHEN WET.

**NEUTRALIZING CHEMICALS**

NA

**WASTE DISPOSAL METHOD**

DESIGNATED LAND FILL

**VIII INDUSTRIAL HYGIENE CONTROL MEASURES**

**VENTILATION REQUIREMENTS**

MECHANICAL, GENERAL ROOM VENTILATION

USE LOCAL VENTILATION TO MAINTAIN TLV (SEE SECTION V)

**SPECIFIC PERSONAL PROTECTIVE EQUIPMENT**

**RESPIRATORY**

USE A NIOSH APPROVED MECHANICAL FILTER RESPIRATOR FOR NON TOXIC DUSTS.

**EYE**

SAFETY GLASSES, GOGGLES

**GLOVES**

NONE REQUIRED

**OTHER CLOTHING AND EQUIPMENT**

APRON, EYEWASH STATION
AVOID PROLONGED INHALATION.

RECOMMENDED LABELING:

FRONT PANEL: CAUTION
SEE BACK PANEL FOR CAUTION BEFORE USE.

BACK PANEL: CAUTION
THIS PRODUCT CONTAINS FREE CRYSTALLINE SILICA WHICH ACCORDING TO
THE IARC HAS EXHIBITED LIMITED EVIDENCE OF CARCINOGENICITY IN
HUMANS. PROLONGED INHALATION OF THE POWDER MAY RESULT IN SILI-
COSIS, A NONCANCEROUS LUNG DISEASE AVOID CREATING DUSTY CONDI-
TIONS AND USE A NIOSH APPROVED DUST RESPIRATOR.

OTHER HANDLING AND STORAGE REQUIREMENTS

STORE IN SHELTERED AREA OR COVER TO PROTECT FROM MOISTURE

DEPARTMENT OF TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: NOT REGULATED
PLACARDS: NONE
REPORTABLE QUANTITY: NONE
ID NUMBER: NONE
HAZARD CLASS: NOT HAZARDOUS
HAZARDOUS SUBSTANCE: NONE
LABEL: NONE REQUIRED

PREPARED BY NL Beroid
ENVIRONMENTAL SERVICES
DATE OCTOBER, 1988