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UNITED STATES
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY
986 NATIONAL CENTER
RESTON, VIRGINIA 20192

INDIVIDUAL COMPANY
DATA - PROPRIETARY

MAGNESIUM COMPOUNDS
(Raw Materials and Products)

Unless authorization is granted in the section above the signature, the data furnished in this report will be treated in confidence by the Department of the Interior, except that they may be disclosed to Federal defense agencies, or to the Congress upon official request for appropriate purposes. Unless objection is made in writing to the USGS, the information furnished in this report may be disclosed to the respondent's State Geological Survey (or similar State Agency) if the State has appropriate safeguards to prevent disclosing company proprietary data.

(Please correct if name or address has changed.)

FACSIMILE NUMBER
1-800-543-0661

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Collection of nonfuel minerals information is authorized by 30 U.S.C. 1601 et seq. and the Defense Production Act. This information is used to support executive policy decisions pertaining to emergency preparedness, national defense, and analyses for minerals legislation and industrial trends. The USGS relies on your voluntary and timely response to assure that its information is complete and accurate. Please return this form in the enclosed envelope or fax to the above toll-free number **AS SOON AS POSSIBLE**. Complete a separate form for each mineral establishment that was active during the reporting period. A mineral establishment is defined as a single physical location where mineral operations are conducted; for example, a mine only, a mine and preparation plant, or a preparation plant only. If you do not have exact data, please enter your best estimates and mark with an /e. Use zero (0) when appropriate. If you have nothing to report, please complete "Location of establishment", sign, and return the form. Please do not make entries in shaded areas. Additional forms are available upon request. If you have any questions concerning completion of this form, please contact the Mineral Commodities Data Unit, U.S. Geological Survey, 985 National Center, Reston, VA 20192, Telephone (703) 648-7960.

Location of establishment: Nearest city or town _____ County _____ State _____

1. Materials received, produced, consumed, or shipped during year.

Report quantities of mine output of raw materials under RECEIVED and the quantities of resulting concentrate under PRODUCED. If you consumed or shipped any of the material you purchased, include the quantity shipped or consumed in your report. Round quantities to the nearest thousand gallons or short ton and values to the nearest dollar; exclude containers where applicable.

| Raw material or product (1) | Code | Unit of measure | | Received (2) | Produced (3) | Consumed (4) | Shipped | |
|---|------|----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------------------|
| | | (Thou- sand gallons) | (Short tons) | | | | Quantity (5) | Value f.o.b. works (6) |
| Raw material: | | | | | | | | |
| Magnesite..... | 201 | | X | | | | | \$ |
| Brucite..... | 202 | | X | | | | | |
| Dolomite..... | 203 | | X | | | | | |
| Olivine..... | 204 | | X | | | | | |
| Raw sea water..... | 205 | X | | | | | | |
| Sea water bitterns..... | 206 | X | | | | | | |
| Well brines..... | 207 | X | | | | | | |
| Lake brines..... | 208 | X | | | | | | |
| Causticizer or enricher: | | | | | | | | |
| Oyster shells..... | 209 | | X | | | | | |
| Calcined lime..... | 210 | | X | | | | | |
| Calcined dolomite..... | 211 | | X | | | | | |
| Product manufactured: | | | | | | | | |
| Caustic-calcined magnesia, MgO..... | 212 | | X | | | | | |
| Refractory magnesia, MgO..... | 213 | | X | | | | | |
| Magnesium oxide, U.S.P. and technical, basis 100% MgO: | | | | | | | | |
| Extra-light and light..... | 214 | | X | | | | | |
| Heavy..... | 215 | | X | | | | | |
| Magnesium carbonate, MgCO ₃ | 216 | | X | | | | | |
| Magnesium chloride, MgCl ₂ ·6H ₂ O..... | 217 | | X | | | | | |
| Magnesium chloride, MgCl ₂ (metal cell feed)..... | 218 | | X | | | | | |
| Magnesium chloride brines..... | 219 | | X | | | | | |
| Magnesium hydroxide, Mg(OH) ₂ | 220 | | X | | | | | |
| Magnesium sulfate, MgSO ₄ ·7H ₂ O..... | 221 | | X | | | | | |
| Magnesium sulfate, anhydrous, MgSO ₄ | 222 | | X | | | | | |
| Other (<i>specify</i>)..... | | | X | | | | | |

OVER

2. Disposition of magnesium compounds by industry.

Please report quantities of magnesium compounds shipped or consumed during the year to the nearest SHORT TON.

| Consuming industry (1) | Code | TYPE OF MAGNESIA, MgO | | | Code | Magnesium carbonate MgCO ₃ (216) | Magnesium chloride MgCl ₂ ·6H ₂ O (217) | Magnesium chloride brines (219) | Magnesium hydroxide Mg(OH) ₂ (220) | Magnesium sulfate MgSO ₄ ·7H ₂ O (221) | Magnesium sulfate MgSO ₄ (222) | Other (240) |
|---|------|-------------------------------|-----------------------------------|----------------|------|--|--|--|--|---|--|----------------|
| | | Caustic- calcined (212) | Extra light and light (214) | Heavy (215) | | | | | | | | |
| Chemical..... | 301 | | | | 401 | | | | | | | |
| Electrical..... | 302 | | | | 402 | | | | | | | |
| Fertilizer..... | 303 | | | | 403 | | | | | | | |
| Fluxes..... | 304 | | | | 404 | | | | | | | |
| Insulation..... | 305 | | | | 405 | | | | | | | |
| Medicinal and pharmaceuticals..... | 306 | | | | 406 | | | | | | | |
| Oxychloride and oxysulfate cements..... | 307 | | | | 407 | | | | | | | |
| Pulp and paper..... | 308 | | | | 408 | | | | | | | |
| Rayon..... | 309 | | | | 409 | | | | | | | |
| Brick and shapes: Chromia based..... | 313 | | | | 413 | | | | | | | |
| Alumina based..... | 314 | | | | 414 | | | | | | | |
| Monolithic..... | 315 | | | | 415 | | | | | | | |
| Foundry..... | 316 | | | | 416 | | | | | | | |
| Refractory..... | 317 | | | | 417 | | | | | | | |
| Rubber (catalyst and filler).... | 311 | | | | 411 | | | | | | | |
| Uranium processing.... | 312 | | | | 412 | | | | | | | |
| Petroleum and fuel additive..... | 318 | | | | 418 | | | | | | | |
| Animal feed supplement..... | 319 | | | | 419 | | | | | | | |
| Construction materials (excluding cements).. | 320 | | | | 420 | | | | | | | |
| Stack gas scrubbing... | 321 | | | | 421 | | | | | | | |
| Cosmetics..... | 322 | | | | 422 | | | | | | | |
| Sugar refining..... | 323 | | | | 423 | | | | | | | |
| Candies..... | 324 | | | | 424 | | | | | | | |
| Wine processing..... | 325 | | | | 425 | | | | | | | |
| Water treatment..... | 326 | | | | 426 | | | | | | | |
| Other (<i>specify</i>) | | | | | | | | | | | | |
| | | | | | | | | | | | | |

Remarks:

| | | | | | | | | | | | |
|--|--|-----|--|----------------|--|------|--|-------|--|----------|--|
| Name of person to be contacted regarding this report | | | | Tel. area code | | No. | | Ext. | | | |
| Address | | No. | | Street | | City | | State | | ZIP Code | |

May tabulations be published which could indirectly reveal the data reported above?

Value data (1) Yes (2) No Other (including quantity) data (1) Yes (2) No

| | | | | | | | | |
|-----------|--|--|-------|--|--|------|--|--|
| Signature | | | Title | | | Date | | |
|-----------|--|--|-------|--|--|------|--|--|