

# Material Safety Data Sheet



## Calcium Iodate 63.5%

### 1. Product and company identification

**Common name** : Calcium Iodate 63.5%  
**Synonym** : Calcium Iodate Monohydrate.  
**Material uses** : Included in animal feeds.  
**Supplier/Manufacturer** : Pestell Minerals & Ingredients  
141 Hamilton Road  
New Hamburg, Ontario  
Canada, N3A 2H1  
Tel : (519) 662-2877  
Fax : (519) 662-6242  
E-mail: pestellgroup@pestell.com  
**In case of emergency** : CANUTEC (613) 996-6666  
**MSDS authored by:** : Kemika XXI Inc. + 1-450-435-74750

### 2. Hazards identification

**Physical state** : Solid. (Crystalline powder.)  
**Odor** : Odorless.  
**Color** : White to off-white.  
**Hazard status** : This material is classified hazardous under OSHA regulations in the United States and the WHMIS Controlled Product Regulation in Canada.  
**Emergency overview** : WARNING !  
OXIDIZER.  
CAUSES EYE IRRITATION.  
CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.  
Avoid contact with eyes. Store in tightly-closed container. Avoid contact with combustible materials. Wash thoroughly after handling.  
**Routes of entry** : Dermal contact. Eye contact. Inhalation. Ingestion.  
**Potential acute health effects**  
**Eyes** : Irritating to eyes.  
**Skin** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.  
**Potential chronic health effects** : Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.  
Mutagenic effects: Not available.  
Teratogenic effects: Not available.  
**Medical conditions aggravated by over-exposure** : Repeated exposure of the eyes to a low level of dust can produce eye irritation.

See toxicological information (section 11)

### 3. Composition/information on ingredients

#### United States

| Name           | CAS number | %   |
|----------------|------------|-----|
| Calcium iodate | 7789-80-2  | >97 |

**Canada**

| Name           | CAS number | %   |
|----------------|------------|-----|
| Calcium iodate | 7789-80-2  | >97 |

**4 . First aid measures**

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
- Skin contact** : Wash with soap and water. Get medical attention if symptoms occur.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Notes to physician** : No specific antidote. Medical staff must contact Poison Control Center.

**5 . Fire-fighting measures**

- Flammability of the product** : Non-flammable.
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
  - Not suitable** : None known.
- Special exposure hazards** : This material increases the risk of fire and may aid combustion. Contact with combustible material may cause fire.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**6 . Accidental release measures**

- Personal precautions** : Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment. Do not touch or walk through spilled material.
- Environmental precautions** : Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, carefully scoop up spilled materials and use a non-sparking or explosion-proof means to transfer material to an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

**7 . Handling and storage**

- Handling** : Avoid contact with eyes. Store in tightly-closed container. Avoid contact with combustible materials. Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from acids, alkalis, reducing agents and combustibles.

**8 . Exposure controls/personal protection**

Consult local authorities for acceptable exposure limits.

- Engineering measures** : No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- Personal protection**
- Eyes** : Safety glasses.

- Skin** : Lab coat.
- Respiratory** : A respirator is not needed under normal and intended conditions of use.
- Hands** : Natural rubber (latex).



**HMIS Code/Personal protective equipment** : B

**Personal protection in case of a large spill** : Safety glasses, goggles or face shield. Impervious gloves. Full suit. Boots. Wear NIOSH-approved self-contained breathing apparatus or equivalent and full protective gear.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.

## 9 . Physical and chemical properties

- Physical state** : Solid. (Crystalline powder.)
- Color** : White to off-white.
- Odor** : Odorless.
- Molecular formula** :  $\text{Ca}(\text{IO}_3)_2 \cdot \text{H}_2\text{O}$
- Relative density** : 4.59 (Water = 1)
- Solubility** : Easily soluble in methanol.  
Partially soluble in cold water, hot water.

## 10 . Stability and reactivity

- Stability and reactivity** : The product is stable.
- Incompatibility with various substances** : Reactive with reducing materials.
- Hazardous decomposition products** : These products are halogenated compounds.
- Hazardous polymerization** : Will not occur.
- Conditions of reactivity** : Not available.

## 11 . Toxicological information

### Acute Effects

- Eyes** : Irritating to eyes.
- Skin** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Potential chronic health effects** : Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.  
Mutagenic effects: Not available.  
Teratogenic effects: Not available.

## 12 . Ecological information

- Environmental precautions** : No known significant effects or critical hazards.
- Products of degradation** : These products are halogenated compounds. Some metallic oxides.
- Toxicity of the products of biodegradation** : The products of degradation are more toxic than the product itself.

## 13 . Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional and local authority requirements.

## 14 . Transport information

**AERG** : 140

| Regulatory information                 | Proper shipping name                     | Class | UN number | PG | Label |
|--|--|-------|-----------|----|-------|
| <b>UN / IMDG / IATA Classification</b> | OXIDIZING SOLID, N.O.S. (Calcium iodate) | 5.1   | UN1479    | II |       |
| <b>DOT Classification</b>              | OXIDIZING SOLID, N.O.S. (Calcium iodate) | 5.1   | UN1479    | II |       |
| <b>TDG Classification</b>              | OXIDIZING SOLID, N.O.S. (Calcium iodate) | 5.1   | UN1479    | II |       |

## 15 . Regulatory information

### United States

**HCS Classification** : Oxidizing material  
Irritating material

**U.S. Federal regulations** : TSCA 6 proposed risk management: Lead  
TSCA 8(b) inventory: All components listed.  
TSCA 12(b) annual export notification: Lead

SARA 302/304/311/312 extremely hazardous substances: No products were found.  
SARA 302/304 emergency planning and notification: No products were found.  
SARA 302/304/311/312 hazardous chemicals: No products were found.  
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

Clean Water Act (CWA) 307: Arsenic; Lead  
Clean Water Act (CWA) 311: No products were found.  
Clean Air Act (CAA) 112 accidental release prevention: No products were found.  
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.  
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

**State regulations** : Pennsylvania RTK: Arsenic: (environmental hazard, generic environmental hazard);  
Lead: (environmental hazard, generic environmental hazard)  
Massachusetts RTK: Arsenic; Lead  
New Jersey: Arsenic; Lead

**WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

| Ingredient name | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|-----------------|--------|--------------|---------------------------|---------------------------------|
| Arsenic         | Yes.   | No.          | 0.06 µg/day (inhalation)  | No.                             |
| Lead            | Yes.   | Yes.         | 15 µg/day (ingestion)     | Yes.                            |

## Canada

## WHMIS (Canada)

: Class C: Oxidizing material.  
Class D-2B: Material causing other toxic effects (Toxic).



DSL : All components listed.

This product has been classified in accordance with the hazard criteria of the Canadian CPR and the United States OSHA. This MSDS contains all the information required by the CPR and OSHA, the American National Standard Institute (ANSI) Z400.1.

## International lists

: This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, in Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

## 16 . Other information

## Label requirements (U.S.A.)

: OXIDIZER.  
CAUSES EYE IRRITATION.  
CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.

## Hazardous Material Information System (U.S.A.)

:

## HMIS RATING

|                     |   |
|---------------------|---|
| Health              | 1 |
| Fire hazard         | 0 |
| Physical Hazard     | 1 |
| Personal protection | B |

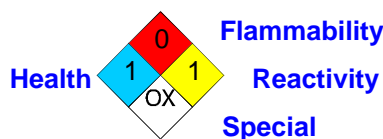
## HAZARD RATINGS

4- Extreme  
3- Serious  
2- Moderate  
1- Slight  
0- Minimal

See section 8 for more detailed information on personal protection.

## National Fire Protection Association (U.S.A.)

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## References

: ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005.

## Date of issue

: 10/15/2006

## Version

: 1

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