

Material Safety Data Sheet



Calcium Iodate 62%

1. Product and company identification

Common name : Calcium Iodate 62%
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
UN / IMDG / IATA Classification	OXIDIZING SOLID, N.O.S. (Calcium iodate)	5.1	UN1479	II	
DOT Classification	OXIDIZING SOLID, N.O.S. (Calcium iodate)	5.1	UN1479	II	
TDG Classification	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

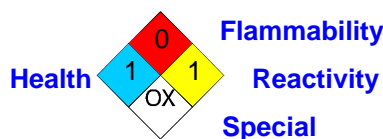
HAZARD RATINGS

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

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Version

: 1

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.