

Calibre Chemicals	SAFETY DATA SHEET
CALCIUM IODATE ANHYDROUS	Doc. No. SDS/CIA/R5
	Effective: 04/10/2018
	Next Review: 03/09/2020
Engineering Chemistry	Page 1 of 12

1. Identification of the substance/preparation and of the Company/undertaking

1.1 Product Identifier

Product : Calcium Iodate [Ca (IO₃)₂]
 EC Index no : -
 EC no : 232-191-3
 CAS No. : 7789-80-2

1.2 Relevant identified uses of the substance or mixture and uses

Identified use : Animal feed supplement

1.3 Details of the supplier of the safety data sheet

Manufacturer : Calibre Chemicals Pvt. Ltd.
 703 Dalamal House, 206 Nariman Point,
 Mumbai – 400021 India
 E-mail – sds@calibrechem.com

1.4 **Emergency Contact** : +91-2222823148 (Office hours)
 +91-8108141484 (After office hours)

2. Hazards Identification

2.1 Classification of the substance or mixture Classification as per EC Regulation 1272/2008



Ox. Sol. 2 H272 May intensify fire; oxidiser



Skin Irrit. 2 H315 Causes skin irritation.
 Eye Irrit. 2 H319 Causes serious eye irritation.
 STOT SE 3 H335 May cause respiratory irritation.

Calibre Chemicals	SAFETY DATA SHEET
CALCIUM IODATE ANHYDROUS	Doc. No. SDS/CIA/R5
	Effective: 04/10/2018
	Next Review: 03/09/2020
Engineering Chemistry	Page 2 of 12

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation

Hazard pictograms



GHS03



GHS07

Signal word: Danger

Hazard statements

- H272 : May intensify fire; oxidiser.
- H315 : Causes skin irritation.
- H319 : Causes serious eye irritation.
- H335 : May cause respiratory irritation.

Precautionary statements

- P210 : Keep away from heat/sparks/open flames/hot surfaces. - No Smoking
- P220 : Keep/Store away from clothing / combustible materials.
- P221 : Take any precaution to avoid mixing with combustibles.
- P280 : Wear protective gloves/protective clothing / eye protection / face protection.
- P302+P352
IF ON SKIN : Wash with plenty of soap and water.
- P305+P351+
P338 IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P261 : Avoid breathing dust/fume/gas/mist/vapours/spray.
- P304+P340
IF INHALED : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P501 : Dispose of contents/container in accordance with local/regional/national/international regulations.

Calibre Chemicals	SAFETY DATA SHEET
CALCIUM IODATE ANHYDROUS	Doc. No. SDS/CIA/R5
	Effective: 04/10/2018
	Next Review: 03/09/2020
Engineering Chemistry	Page 3 of 12

2.3 Other hazards

Results of PBT and vPvB assessment

PBT : Not a PBT substance

VPvB : Not a vPvB substance

3. Composition / Information on Ingredients Substance

Calcium Iodate Anhydrous

Formula : $\text{Ca}(\text{IO}_3)_2$
Molecular Weight : 389.88 g/mol
Concentration : 97.5-100%

4. First Aid Measures

Inhalation:

Remove from exposure to fresh air. If breathing difficult, give oxygen. If not breathing give artificial respiration. Get medical aid immediately.

Ingestion:

Do not induce vomiting. Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact:

Remove contaminated clothing. Flush with large quantities of water for at least 15 minutes. If irritation exists seek medical attention.

Eye Contact:

Immediately flush eyes with plenty of water for at least 5 minutes, remove contact lens if present, continue to flush with water for 10 more minutes. Seek medical attention immediately after flushing.

4.1 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated, prolonged exposure to iodides may produce iodism in sensitive individuals.

Symptoms of exposure include: skin rash, running nose, headache and irritation of the mucous membrane.

For severe cases the skin may show pimples, boils, hives, blisters and black and blue spots. Iodides are

readily diffused across the placenta. Neonatal deaths from respiratory distress secondary to goiter have been reported. Iodides have been known to cause drug-induced fevers, which are usually of short duration.

Calibre Chemicals	SAFETY DATA SHEET
CALCIUM IODATE ANHYDROUS	Doc. No. SDS/CIA/R5
	Effective: 04/10/2018
	Next Review: 03/09/2020
Engineering Chemistry	Page 4 of 12

4.2 Indication of any immediate medical attention and special treatment Needed

No additional information available

5. Fire Fighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media: Water

5.2 Special hazards arising from the substance or mixture

Thermal Decomposition releases iodine and / or oxides of iodine.

5.3 Specific methods:

Cool Containers / tanks with water spray.

Prohibit all sources of sparks and ignition – Do not smoke. In case of fire nearby, remove exposed containers.

5.4 Special protective equipment for fire fighting:

Wear self contained breathing apparatus as per NIOSH or European Standard EN 137 : 2006.

5.5 Additional information:

Use water spray to cool unopened containers.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency Procedures

Avoid contact with skin and eyes. Wear personal protective equipment as specified in Section 8. Remove all sources of ignition. Ventilate area of leak or spill.

6.2 Environmental precautions

Do not let product enter drains. Sweep up and containerize spills for reclamation or disposal.

6.3 Methods of cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal

Calibre Chemicals	SAFETY DATA SHEET
CALCIUM IODATE ANHYDROUS	Doc. No. SDS/CIA/R5
	Effective: 04/10/2018
	Next Review: 03/09/2020
Engineering Chemistry	Page 5 of 12

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. Handling and Storage

7.1 Precautions for safe handling

Keep container tightly closed. Avoid contact with clothing and other combustible materials.

Do not get on skin or in eyes. Avoid ingestion and inhalation. Use with adequate ventilation. Minimize dust generation and accumulation.

Empty containers retain product residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames

7.2 Condition for safe storage, including any incompatibilities

Store in a cool, dry place. Keep away from heat, sparks, and flame. Do not store near combustible materials. Keep away from reducing agents.

7.3 Specific End Use

Given in section 1.2

8. Exposure Controls / Personal Protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.

8.2 Exposure Controls

8.2.1 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

8.2.2 Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 (EU) or NIOSH (US)

Calibre Chemicals	SAFETY DATA SHEET
CALCIUM IODATE ANHYDROUS	Doc. No. SDS/CIA/R5
	Effective: 04/10/2018
	Next Review: 03/09/2020
Engineering Chemistry	Page 6 of 12

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use Respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. Physical and Chemical Properties

Appearance	: White to off-white powder.
Odour	: Odorless
Color	: Colourless
Odor threshold	: Not applicable
pH (5% solution in water)	: 10 – 12
Melting / Freezing Point	: Decomposes. (540°C or 1004°F)
Boiling Point	: No data available
Flash point	: No data available
Specific Gravity	: 4.5
Vapour pressure	: Nil
Flammability (solid, gas)	: Not flammable
Relative vapour density	: Not applicable.
Solubility	: About 4 gm in 1000 ml water at 30° C

Calibre Chemicals	SAFETY DATA SHEET
CALCIUM IODATE ANHYDROUS	Doc. No. SDS/CIA/R5
	Effective: 04/10/2018
	Next Review: 03/09/2020
<i>Engineering Chemistry</i> Page 7 of 12	

Self-ignition temperature : Not applicable.

Decomposition temp. : No data available

9.2 Other Information

Bulk Density : 1.6 grams/cc

10. Stability and Reactivity

10.1 Possibility of hazardous reactions

Chemical Stability:

Stable at room temperature in closed containers under normal storage and handling conditions

10.2 Conditions to Avoid:

Extreme Temperature

10.3 Material to avoid:

Avoid contact with combustible matter and reducing compounds.

10.4 Hazardous Polymerization:

Will not occur.

10.5 Hazardous Decomposition Products:

Iodine & / or oxides of Iodine

11. Toxicological Information

Acute toxicity

No data available

Inhalation: no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Calibre Chemicals	SAFETY DATA SHEET
CALCIUM IODATE ANHYDROUS	Doc. No. SDS/CIA/R5
	Effective: 04/10/2018
	Next Review: 03/09/2020
Engineering Chemistry	Page 8 of 12

Germ cell mutagenicity

no data available

Carcinogenicity

IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. Causes skin irritation.

Eyes Causes serious eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated, prolonged exposure to iodides may produce iodism in sensitive individuals.

Symptoms of exposure include: skin rash, running nose, headache and irritation of the mucous membrane.

For severe cases the skin may show pimples, boils, hives, blisters and black and blue spots. Iodides are readily diffused across the placenta.

Neonatal deaths from respiratory distress secondary to goiter have been reported. Iodides have been known to cause drug-induced fevers, which are usually of short duration.

Additional Information

RTECS: Not available

Calibre Chemicals	SAFETY DATA SHEET
CALCIUM IODATE ANHYDROUS	Doc. No. SDS/CIA/R5
	Effective: 04/10/2018
	Next Review: 03/09/2020
Engineering Chemistry	Page 9 of 12

12. Ecological Information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

13. Disposal Considerations

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal Company.

13.2 Contaminated packaging

Dispose of as unused product

14. Transport Information

14.1 UN-Number

ADR, IMDG, IATA

UN 1479

14.2 UN proper shipping name

ADR
IMDG

1479, Calcium Iodate Anhydrous
Calcium Iodate Anhydrous

Calibre Chemicals	SAFETY DATA SHEET
CALCIUM IODATE ANHYDROUS	Doc. No. SDS/CIA/R5
	Effective: 04/10/2018
	Next Review: 03/09/2020
Engineering Chemistry	Page 10 of 12

IATA

Oxidizing Solid, n.o.s (Calcium Iodate)

14.3 Transport hazard class (es)

ADR, IMDG, IATA



**Class
Label**

5.1 Oxidizing substances

14.4 Packing group:

ADR, IMDG, IATA

II

14.5 Environmental hazards:

Marine pollutant

No

14.6 Special precautions for user

Warning: Oxidising substances.

Danger code (Kemler):

50

EMS Number:

F-A,S-Q

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

14.8 Transport/Additional information: IATA Regulation (UN 1479)

**Passengers and Cargo
Aircraft**

Max Net Qty/Pkg - 5.0 kg
Packing Instructions - 558

Cargo Aircraft

Max Net Qty/Pkg - 25 kg
Packing Instructions - 562

**ADR
Tunnel restriction code**

E

UN "Model Regulation":

UN1479,
Calcium Iodate Anhydrous,
5.1, II

Calibre Chemicals	SAFETY DATA SHEET
CALCIUM IODATE ANHYDROUS	Doc. No. SDS/CIA/R5
	Effective: 04/10/2018
	Next Review: 03/09/2020
Engineering Chemistry	Page 11 of 12

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms Please refer section 2

Signal word Danger

Hazard statements Please refer section 2

Precautionary statements Please refer section 2

National regulations:

Other regulations, limitations and prohibitive regulations
Substances of very high concern (SVHC) according to REACH, Article 57
The substance is not listed as SVHC.

Chemical safety assessment:

No data available

16. Other Information

16.1 Indication of changes:

Section 2. Hazard Identification revised as per EC Regulation 1272/2008
Revision 4. Effective 25/04/2018.

16.2 Abbreviations and acronyms: - -

16.3 Key literature reference and source for data

1. Regulation (EC) No. 1272/2008
2. Regulation (EC) No. 453/2010
3. ECHA - Guidance on the compilation of safety data sheets version 2.1
4. GESTIS

Calibre Chemicals	SAFETY DATA SHEET
CALCIUM IODATE ANHYDROUS	Doc. No. SDS/CIA/R5
	Effective: 04/10/2018
	Next Review: 03/09/2020
<i>Engineering Chemistry</i>	Page 12 of 12

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or

Quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Calibre Chemicals Pvt. Ltd.
703 Dalamal House,
206 Nariman Point,
Mumbai, 400021. India