



WEST BENGAL CHEMICAL INDUSTRIES LIMITED
145/1, Jessore Road, Lake Town,
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Phone: +9133 4025 1700 Fax: +9133 2574 7410
Email: wbcil@wbcil.com Website: www.wbcil.com

Section 1 - Chemical Product and Company Identification

1.1 Product Name: Calcium Lactate Gluconate

1.2 Product Code: CLG1113

1.3 Recommended use:

Food additive, Industrial use, Pharmaceutical substance

1.4 Company Identification:

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Section 2 - Hazards Identification

2.1 Classification of the substance or mixture:

GHS, Globally Harmonized System Classification in accordance with 29 CFR 1910

Classification according to Regulation (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC.

2.1.1 Hazard classification

Skin irritation (Category 2)

Eye irritation (Category 2)

Specific target organ toxicity, single exposure (Category 3)

2.2 Signal Word:

Warning

2.3 Hazard Statement:

H315 Causes skin irritation.



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Section 2 - Hazards Identification

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

2.4 Precautionary Statement:

Prevention

- **P264:** Wash thoroughly after handling.
- **P280:** Wear protective gloves/protective clothing/eye protection/face protection.
- **P261:** Avoid breathing dust/fume/gas/mist/vapors/spray.
- **P271:** Use only outdoors or in a well-ventilated area.
- **P403+P233:** Store in a well-ventilated place. Keep container tightly closed.
- **P405:** Store locked up.

Response

- **P302+P352:** IF ON SKIN: Wash with plenty of soap and water.
- **P321:** Specific treatment (see on this label).
- **P332+P313:** If skin irritation occurs: Get medical advice/attention.
- **P362+P364:** Take off contaminated clothing and wash it before reuse.
- **P305+P351+P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **P337+P313:** If eye irritation persists: Get medical advice/attention.
- **P304+P340:** IF INHALED: Remove¹ casualty to fresh air and keep at rest in a position comfortable for breathing.
- **P312:** Call a POISON CENTER or doctor/physician if you feel unwell.

Disposal

- **P501:** Dispose of contents / container in accordance with local / regional / national / international regulations.

2.5 Other hazards

Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated.



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Section 2 - Hazards Identification

2.6 Pictogram



2.6 HMIS diagram

Health	1
Flammability	1
Physical Hazard	0
Personal protection	E

HMIS RATINGS (0-4)

Section 3 - Composition / Information on Ingredients

3.1 Chemical Name of The Material: Calcium Lactate Gluconate

3.2 Chemical Family: Salts of Organic Acid

3.3 Synonyms: Calcium Lacto gluconate: Calcium (S)-2-hydroxypropanoate 2,3,4,5,6 - pentahydroxy hexanoate

3.4 Molecular Weight: 324.29 gm/mol

3.5 Molecular Formula: C₉H₁₆O₁₀Ca

3.6 CAS Number: 11116-97-5

3.7 EC number: 234-359-1

3.8 CONCENTRATION: 100%



Section 4 - First Aid Measures

4.1 Description of first aid measures

4.1.1 General advice:

No hazards which require special first aid measures. If you feel unwell, seek medical advice.

4.1.2 Inhalation:

Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration. Get medical attention

4.1.3 Skin contact:

Remove contaminated clothing and equipment. Wash all affected areas with plenty of soap and water for at least 15 minutes. Do not attempt to neutralize with chemical agents. Get medical attention if irritation occurs. Remove contaminated clothing and shoes and wash before reuse

4.1.4 Eye contact:

Flush the eyes with large quantities of running water for a minimum of 15 minutes. If the victim is wearing contact lenses, remove them. Hold the eyelids apart during flushing to ensure rinsing of the entire surface of the eye and lids with water. DO NOT let victim rub eye(s). Do not attempt to neutralize with chemical agents. Oils or ointments should not be used at this time. Get medical attention if eye irritation occurs

4.1.4 Ingestion:

Give several glasses of water. If vomiting occurs, keep head below hips to reduce risk of aspiration. Give fluids again. Seek medical attention if health effects occur.



Section 4 - First Aid Measures

4.2 Protection of first-aiders:

No hazards which require special first aid measures.

4.3 Medical Conditions Aggravated:

There are no data available that address medical conditions that are generally recognized as being aggravated by exposure to this product.

4.4 Note to Physician:

No specific antidote is known. Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical conditions.

4.5 Most important symptoms and effects, both acute and delayed

4.5.1 Skin contact

There may be mild irritation at the site of contact.

4.5.2 Eye contact

There may be irritation and redness.

4.5.3 Ingestion

There may be irritation of the throat.

4.5.4 Inhalation

There may be irritation of the throat with a feeling of tightness in the chest.

4.5.5 Delayed / immediate effects Immediate effects can be expected after short-term exposure

See Section 11 4.3.

4.6 Indication of any immediate medical attention and special treatment needed:



Section 4 - First Aid Measures

Treat symptomatically.

Section 5 - Fire-Fighting Measures

5.1 Extinguishing Media:

5.1.1 Suitable extinguishing media

foam, dry extinguishing powder, carbon dioxide (CO₂), water spray jet

5.1.2 Extinguishing media which must not be used for safety reasons

None

5.2 Special hazards arising from the substance or mixture:

Wear a self-contained breathing apparatus and chemical protective clothing.

5.3 Hazards During Fire-Fighting:

toxic fumes

5.4 Flash Point:

>100°C Closed Cup

5.5 Flammable Limits:

N/A

5.6 Auto ignition temperature:

> 338.00°F (> 170.00°C)

5.7 Hazardous decomposition products:

Thermal decomposition may result in toxic fumes of calcium and carbon monoxide and carbon



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Section 5 - Fire-Fighting Measures

dioxide.

5.8 Special protective equipment:

Use personal protective equipment including self-contained breathing apparatus when fighting fire in enclosed area.

5.9 Specific extinguishing methods:

Standard procedure for chemical fires

5.10 Advice for firefighters:

5.10.1 Fire Fighting

Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire-fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.

5.11 Fire/Explosion Hazard:

Non-combustible. Not considered a significant fire risk, however containers may burn. May emit poisonous fumes. May emit corrosive fumes.

Section 6 - Accidental Release Measures

6.1 Personal precautions:

Use personal protective equipment. Avoid dust formation.



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Section 6 - Accidental Release Measures

6.2 Environmental precautions:

Dispose according to federal, state and local authorities.

6.3 Methods and material for containment and cleaning up

Sweep up and shovel. After cleaning, flush away traces with water.

6.3.1 Minor Spills

Clean up all spills immediately. Avoid breathing dust and contact with skin and eyes. Wear protective clothing, gloves, safety glasses and dust respirator. Use dry clean up procedures and avoid generating dust. Sweep up, shovel up or Vacuum up (consider explosion-proof machines designed to be grounded during storage and use). Place spilled material in clean, dry, sealable, labelled container.

6.3.2 Major Spills

Moderate hazard. CAUTION: Advise personnel in area. Alert Emergency Services and tell them location and nature of hazard. Control personal contact by wearing protective clothing. Prevent, by any means available, spillage from entering drains or water courses. Recover product wherever possible. IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal. ALWAYS: Wash area down with large amounts of water and prevent runoff into drains. If contamination of drains or waterways occurs, advise Emergency Services.

6.3.3 Caution

Advise personnel in area. Alert Emergency Services and tell them location and nature of hazard.



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Section 6 - Accidental Release Measures

Control personal contact by wearing protective clothing. Prevent, by any means available, spillage from entering drains or water courses. Recover product wherever possible.

6.3.4 If dry

Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal.

6.3.5 If wet

Vacuum/shovel up and place in labelled containers for disposal.

6.4.6 Always

Wash area down with large amounts of water and prevent runoff into drains. If contamination of drains or waterways occurs, advise Emergency Services.

Section 7 - Handling and Storage

7.1 HANDLING:

Technical measures/Precautions No special technical protective measures required. Safe handling advice No special handling advice required.

7.2 STORAGE:

7.2.1 Technical measures/Storage conditions

Keep tightly closed in a dry and cool place.

7.2.2 Incompatible products

No special restrictions on storage with other products.

7.2.3 Suitable container



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Section 7 - Handling and Storage

Polyethylene or polypropylene container. Check all containers are clearly labelled and free from leaks

7.2.4 Packaging material

Store in original container.

7.2.5 Maximum Storage Temperature

68°F (20°C)

7.2.6 Storage Temperature

+20°C

Section 8 - Exposure Controls / Personal Protection

8.1 Engineering measures:

Provide general dilute ventilation. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

8.2 Exposure limit(s):

None established for this ingredient use OSHA PEL, ACGIH TLV for Nuisance dusts of 5 mg/ m³ .

8.3 Personal protection equipment:





Section 8 - Exposure Controls / Personal Protection

8.3.1 Respiratory protection

If handling operations lead to dusting, wear a NIOSH-approved half mask, air purifying respirator with dust, mist and fume filters. When using respirator cartridges or canisters, they must be changed frequently (following each use or at the end of the work shift) to assure that breakthrough exposure does not occur.

Type-P filter sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or natural equivalent)

Required minimum protection factor	Half-face respirator	Full-face respirator	Powered Air Respirator
Up to 10 x ES	P1 Air-line*	- -	PAPR-P1 -
Up to 50 x ES	Air-line**	P2	PAPR-P2
Up to 100 x ES	-	P3 Air-line*	-
100+ x ES	-	Air-line**	PAPR-P3

* - Negative pressure demand ** - Continuous flow

A (All classes) = Organic vapors, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide (HCN). B3 = Acid gas or hydrogen cyanide (HCN), E = Sulfur dioxide (SO₂), G = Agricultural chemicals, K = Ammonia (NH₃), Hg = Mercury, NO = Oxide of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds (below 65 °C)

8.3.2 Hand protection

Gloves



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Section 8 - Exposure Controls / Personal Protection

8.3.3 Eye Protection

Indirect vented, dust-tight goggles are recommended if dust is generated when handling this product. Safety glasses with side shields. Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]

8.3.4 Skin and body protection

Skin contact with this product should be minimized through the use of suitable protective clothing and gloves selected with regard for use condition exposure potential.

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.

When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.

Some glove polymer types are less affected by movement and this should be considered when considering gloves for long-term use.

Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are rated as:

Excellent when breakthrough time > 480 min

Good when breakthrough time > 20 min



Section 8 - Exposure Controls / Personal Protection

Fair when breakthrough time < 20 min

8.3.5 Ventilation Protection:

Special ventilation is usually not required under normal use conditions. General plant ventilation should be adequate in most cases.

8.3.6 Other Protection:

All food and smoking materials should be kept in a separate area away from the storage/use location. Eating, drinking and smoking should be prohibited in areas where there is a potential for significant exposure to this material. Before eating, drinking or smoking, hands and face should be thoroughly washed.

8.3.7 Applicable Exposure Limits:

In addition to any exposure limits displayed below, exposures to this product should be controlled below limits established for "Particulates Not Otherwise Classified (PNOC):"

ACGIH 10 mg/m³

15 mg/m³ (total dust)

OSHA 5 mg/m³ (respirable fraction)

Section 9 - Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	:	White Coarse powder
Physical state	:	Solid
Relative density (Water = 1)	:	Not Available
Odour	:	Odorless or slight characteristic odor



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Section 9 - Physical and Chemical Properties

Partition coefficient	:	n-octanol / water Not Available
Odour threshold	:	Not Available
Auto-ignition temperature (°C) >	:	338.00°F (> 170.00°C)
pH (10% solution)	:	6.0 – 7.1
Decomposition temperature (°C) >	:	170°C
Bulk density	:	300 to 600 kg/m ³
Melting point / freezing point (°C)	:	140
Viscosity (cSt)	:	Not Available
Initial boiling point and boiling range (°C)	:	Not Available
Flash point (°C)	:	Not Available
Evaporation rate	:	Not Available
Explosive properties	:	Not Available
Flammability	:	Not Available
Upper Explosive Limit (%)	:	Not Available
Surface Tension (dyn/cm or mN/m)	:	Not Available
Vapour pressure (kPa)	:	Not Available
Solubility in water	:	400g/l @ 25°C
pH as a solution (1%)	:	Not Available
Phase Transition Solid/Liquid	:	180 °C
Phase Transition Liquid/Gas	:	673.6 °C
Explosion limits Dust explosion constant	:	29 bar.m/s
Min. ignition temperature	:	610°C
Min. ignition energy >	:	8700 mJ
Explosion class	:	ST 1
Max. pressure increase rate	:	105 bar/s
Max. Explosion overpressure	:	5.1 bar



Section 9 - Physical and Chemical Properties

Vapour density (Air = 1)	:	Not Available
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Section 10 - Stability and Reactivity

10.1 Reactivity:

No decomposition if stored and applied as directed.

10.2 Stability:

Stable at normal conditions

10.3 Conditions to avoid:

Keep containers dry and tightly closed to avoid moisture absorption and contamination.

10.4 Incompatible materials:

strong oxidizers, Strong acids.

10.5 Hazardous decomposition products:

carbon dioxide (CO₂), carbon monoxide

10.6 Hazardous Polymerization:

Does not occur.

Section 11 - Toxicological Information

11.1 Toxicology:

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours



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Section 11 - Toxicological Information

of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.

11.2 Inhalation:

Inhalation toxicity data are not available for this product.

11.3 Inhalation (Chronic Exposure):

Chronic inhalation exposure effects of this product are not known.

11.4 Toxicological - Dermal:

Dermal toxicity data is not available for this product. However, it is not considered to be irritating.

11.5 Skin Contact (Chronic):

Chronic dermal exposure effects for this product are not known.

11.6 Toxicological - Eye:

While this product has not been tested, it is expected that it would be nonirritating to the eyes.

11.7 Toxicological - Ingestion:

The oral LD50 for this material is > 5000 mg/kg in rats.

11.8 Ingestion (Chronic):



Section 11 - Toxicological Information

Health effects as a result of chronic ingestion are not known.

11.9 Carcinogenicity / Mutagenicity:

The carcinogenic / mutagenic properties of this product are not known.

11.10 Reproductive Effects:

The reproductive toxicity of this product is not known.

11.11 Neurotoxicity:

The neurotoxic effects of this product are not known.

11.12 Other Toxicological Effects:

No other toxic effects for this product are known.

11.13 Target Organs:

Target organ effects of this material are not available

11.14 STOT - single exposure Product:

No data available

11.15 STOT - repeated exposure Product:

No data available

11.16 Repeated dose toxicity Product:

No data available

11.17 Aspiration toxicity Product:

No data available

11.18 Endocrine disrupting properties:

No evidence of endocrine disrupting properties was found in the current literature.



Section 12 - Ecological Information

12.1 Mobility:

Completely soluble

12.2 Persistence and degradability:

12.2.1 Chemical oxygen demand (COD)

696 mg O₂ /g (type CLG 10) 559 mg O/g (type LG 13)

12.2.2 Biochemical oxygen demand within 5 days (BOD₅)

Not available

12.3 Bioaccumulation:

Not available

12.4 Ecotoxicity effects:

Not available

12.5 Results of PBT and vPvB assessment:

This substance is not identified as a PBT substance.

12.6 Endocrine disrupting properties:

This substance is not identified as having endocrine disrupting properties

12.7 Other adverse effects:

No data available

Section 13 - Disposal Considerations

Waste from residues/unused products Any disposal practice must follow local, state and federal laws and regulations (contact local or state environmental agency for specific rules).



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Section 14 - Transport Information

	Read transport (ADR/GGVS)	Air transport (ATA)
14.1 UN number	Not Dangerous Goods	Not Dangerous Goods
14.2 UN proper shipping name	Not Dangerous Goods	Not Dangerous Goods
14.3 Transport hazard class (es)	Not Dangerous Goods	Not Dangerous Goods
14.4 Packing group	Not Dangerous Goods	Not Dangerous Goods
14.5 Environmental hazard class (es)	Not Dangerous Goods	Not Dangerous Goods
14.6 Special precaution for user	Not applicable	Not applicable
14.7 Transport in bulk according to Annex 11 of MARPOL and the IBC code	Not applicable	Not applicable

14.8 DOT Classification:

Not a DOT controlled material

14.9 Air transport Goods:

Nonhazardous/non-dangerous as per IATA DGR.

14.10 Special Provision for Transport:

Not applicable IATA Specification Non-dangerous, non-hazardous DOT (Pictograms) AS PER IATA REGULATION SAFE FOR CARRAGE, NON-HAZARDOUS AND NONRESTRICTED. NO SPECIAL LABELLING OR TRANSPORT MEASURE HAVE BEEN IDENTIFIED. THIS IS NOT REGULATED AS PER IATA REGULATION



Section 15 - Regulatory Information

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

US Federal regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Panning Quantities

None of the ingredients are listed or exempt.

CERCLA/Superfund Hazardous Substances/Reportable Quantities (EPA)

None of the ingredients are listed or exempt.

SARA extremely hazardous substances EPCRA Reportable Quantities

None of the ingredients are listed or exempt.

SARA 313 Emission Reporting

None of the ingredients are listed or exempt.

CAA Accidental Release Prevention

None of the ingredients are listed or exempt.

FDA – Essential Chemical

None of the ingredients are listed or exempt.

FDA – Precursor Chemical

None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories

None of the ingredients are listed or exempt.

OSHA Highly Hazardous Chemicals

None of the ingredients are listed or exempt.

US State Regulation

Toxin

None of the ingredients are listed or exempt.

California Air Toxics “Hot Spot” (A-I)

None of the ingredients are listed or exempt.

California Air Toxics “Hot Spot” (A-II)



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Section 15 - Regulatory Information

None of the ingredients are listed or exempt.

California Directors List of Hazardous Substance

None of the ingredients are listed or exempt.

Massachusetts “Right to Know” List

None of the ingredients are listed or exempt.

Rhode Island “Right to Know” List

None of the ingredients are listed or exempt.

New Jersey “Right to know” List

None of the ingredients are listed or exempt.

Pennsylvania “Right to Know” List

None of the ingredients are listed or exempt.

Section 16 - Other Information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chem watch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

Definitions and abbreviations



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Section 16 - Other Information

PC—TWA: Permissible Concentration-Time Weighted Average PC—STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index AIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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