Safety Data Sheet

1. IDENTIFICATION:

1.1 Product Identifier: Calcium Oxalate Monohydrate P/N 900905.901 | **MSDS #: 901150.001**

1.2 Product Use: For laboratory use only; for use only in performance verification of thermogravimetric instruments. Not for drug, household or other uses. | **Date: Rev K, October 9, 2015**

1.3 Supplier Information:	EU:	1.4 Emergency Telephone Number
TA Instruments Inc. 159 Lukens Drive New Castle, DE 19720 U.S.A. Tel: +1 302-427-4000 FAX: +1 302-427-4001 www.tainstruments.com	TA Instruments, A Division of Waters NV/SA ConneXion Business Park Brusselsesteenweg 500 B-1731 Zellik, Belgium Phone: 32/2 706 00 80 Fax: 32/2 706 00 81 Email: Belgium@tainstruments.com	FOR CHEMICAL EMERGENCY 24 Hours per Day, 7 Days per Week Call CHEMTREC 800-424-9300 Outside N. America call collect +1 703-527-3887 SDS email inquiries: info@tainstruments.com

2. HAZARDS IDENTIFICATION:

2.1 Classification: Not classified as hazardous per GHS; not listed in Table 3.1 Annex VI of regulation 1272/2008/EU, as amended. The product is not hazardous in the form in which it is placed on the market and under the normal and recommended conditions of storage and use. The product is not dangerous according to the criteria set by the European Union (EU).

2.2 Label Elements: Not classified.

2.3 Other Hazards: The small quantities supplied in our products are unlikely to cause severe or immediate health effects. However, calcium oxalate monohydrate in large amounts may be irritating. Use only as directed and in accordance with safe laboratory practices.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

3.1: Substances:

CHEMICAL INGREDIENT NAME	CAS NUMBER	EC NUMBER	% by Weight	EXPOSURE LIMITS OSHA	EXPOSURE LIMITS ACGIH	EXPOSURE LIMITS EU IOELV
Calcium Oxalate Monohydrate	5794-28-5	209-260-1	99+	NA	NA	NA

Notes: One gram of calcium oxalate monohydrate powder provided in a vial, for use only in the performance verification of thermogravimetric instruments.

4. FIRST AID MEASURES:

4.1: Description of First Aid Measures:

Inhalation: Remove to fresh air.
Skin Contact: Flush with water.
Eye Contact: Immediately flush with water for a minimum of 15 minutes.
Ingestion: Get medical attention.

4.2: Most important symptoms and effects: No important symptoms and effects.

4.3: Indication of any immediate medical attention or special treatment. No special treatment required. After following first aid measures, seek medical attention if desired.

5. FIRE-FIGHTING MEASURES:

Flammable Properties: Not flammable.

5.1 Extinguishing Media: Dry chemical, carbon dioxide or appropriate foam.

5.2 Special hazards contributing to a fire: No additional information.

5.3 Advice for firefighters: No additional information.

Note: As in any fire, wear self-contained breathing apparatus, and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Due to small quantities involved, spills or leaks should not pose a problem. Sweep up and place wastes into closed containers for proper disposal.

6.2 Environmental precautions: No additional information available.

6.3 Methods and material for containment and clean up: Sweep up and place wastes into closed containers for proper disposal.

6.4 Reference to other sections: NA

7. HANDLING AND STORAGE:

Handle as directed and in accordance with safe laboratory practices.

7.1 Precautions for safe handling: No special precautions.

7.2 Conditions for safe storage: No special conditions for safe storage.

7.3 Specific end use: For use only in performance verification of thermogravimetric instruments.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

8.1 Control parameters: Handle in accordance with safe laboratory practices.

8.2 Exposure controls:

Respiratory Protection: Not normally needed.
Eye Protection: Safety glasses with side protection.
Skin Protection: No special requirements. Disposable nitrile gloves are acceptable for light intermittent exposure.
Engineering Controls: No special requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: White to beige powder

Physical State: Solid	**Flash Point: NA**	**Vapor Pressure: NA**
Odor: None	**Explosion Limits: NA**	**Vapor Density (air=1): NA**
pH: NA	**Boiling Point: NA**	**Solubility in Water: Insoluble**
Specific Gravity: 2.12 g/mL	**Melting Point: 392. °F (200°C)**	**Other: Hygroscopic**

10. STABILITY AND REACTIVITY:

10.1 Reactivity: Hazardous Polymerization ☒**Will Not Occur** ☐**May Occur**

10.2 Stability: Stable

10.3 Possibility of hazardous reactions: Small amounts: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. Large amounts: Not applicable.

10.4 Conditions & Materials to Avoid: No additional information.

10.5 Incompatible materials: Small amounts: None under normal use. Large amounts: Not applicable.

10.6 Hazardous decomposition products: Hazardous oxides of carbon and calcium.

11. TOXICOLOGICAL INFORMATION:

Acute toxicity:	**Not classified.**
Skin corrosion/irritation:	**Not classified.**
Serious eye damage/irritation:	**Not classified.**
Respiratory or skin sensitization:	**Not classified.**
Carcinogenicity:	**Not classified as carcinogenic by OSHA, IARC, NTP, ACGIH, or California.**
Reproductive toxicity:	**Not classified.**
Specific target organ toxicity (STOT) (single exposure):	**Not classified.**
STOT (repeated exposure):	**Not classified.**
Aspiration hazard:	**Not classified.**
Potential adverse human health effects and symptoms:	**Small amounts: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. Large amounts: Not applicable.**

12. ECOLOGICAL INFORMATION:

12.1 Toxicity: Small amounts: This product is not classified as environmentally hazardous. Large amounts: Not applicable.

12.2 Persistence and degradability:	**No additional information available.**
12.3 Bioaccumulative potential:	**No additional information available.**
12.4 Mobility in soil:	**No additional information available.**
12.5 Results of PBT and vPvB:	**No additional information available.**
12.6 Other adverse effects:	**No additional information available.**

13. DISPOSAL CONSIDERATIONS:

Section 13.1 Waste treatment methods: Consult state, local or national regulations for proper disposal. The U.S. Environmental Protection Agency (EPA) does not classify unused product as hazardous waste.

14. TRANSPORT INFORMATION: In accordance with IATA/ U.S. DOT/ADR/RID/ADNR/ IMDG: Not Dangerous Goods. Not Regulated.

14.1 UN number:	**Not applicable.**
14.2 UN proper shipping name:	**Not applicable.**
14.3 Transport hazard class:	**Not applicable.**
14.4 Packing group	**Not applicable.**
14.5 Environmental hazards:	**No supplementary information available.**
14.6 Special precautions for user	**No additional information is available.**

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

15. REGULATORY INFORMATION:

15.1 Safety, health and environmental regulations specific for the substance or mixture:

15.1.1 EU-regulations: No REACH Annex XVII restrictions.

15.1.2 National regulations:

U.S. TOSCA: Listed

Canada: This product has been classified according to the hazard criteria of the Controlled Product Registration (CPR) and this SDS contains all the information required by the CPR.

15.2 Chemical safety assessment: No additional information available.

16. OTHER INFORMATION:

U.S. EPA

SARA 313 Chemicals	CERCLA RQ
None	None

National Fire Protection Association Rating

4=Severe Hazard		**HEALTH**	**NA**
3=Serious Hazard		**FLAMMABILITY**	**NA**
2=Moderate Hazard		**REACTIVITY**	**NA**
1=Slight Hazard		**OTHER**	**NA**
0=Minimal Hazard			

Notes, abbreviations and acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS: Chemical Abstracts Service (division of the American Chemical Society)
EC: European Commission
EU IOELV: European Union Indicative Occupational Exposure Limit Values
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
IATA: International Air Transport Association
IMDG: International Maritime Code for Dangerous Goods
NA: Not Available.
OSHA: U.S. Occupational Safety and Health Administration
US DOT: U.S. Department of Transportation

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