

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

Product name: Product code:

Product use: Restrictions on use:

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:

Signal word:

Hazard Statement(s):

Ammonium Cerium(IV) Nitrate C1806

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SAFETY DATA SHEET

For laboratory research purposes. Not for drug or household use.

Emergency telephone number:

Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1- 503-286-7624

Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A] Oxidizing Solids [Category 2]

Danger!

May intensify fire; oxidizer Causes skin irritation Causes serious eye irritation

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Disposal]

precaution to avoid mixing with combustibles. Wash hands and face thoroughly after handling. Wear protective gloves, eye protection. If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Keep away from heat. Keep and store away from clothing and other combustible materials. Take any

Hazards not otherwise classified: [HNOC]

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components: Percent: CAS RN: Molecular Weight: Chemical Formula: Synonyms: Substance Ammonium Cerium(IV) Nitrate >98.0%(T) 16774-21-3 548.22 H₀CeN₀O₁₀ CAN , Ceric Ammonium Nitrate , Cerium(IV) Diammonium Nitrate , Diammonium Cerium(IV) Nitrate

Skin and body protection:

4. FIRST-AID MEASURES	
Description of first aid measures	
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Ingestion:	Continue rinsing. If eye irritation persists: Get medical advice/attention. Get medical advice/attention if you feel unwell. Rinse mouth.
symptoms/effects:	
Acute: Delayed:	Redness. No data available
-	
ndication of any immediate medical attended available.	ention:
Notes to physician: No data available	
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.
Specific hazards arising from the	Explosion risk in case of fire. Fight fire remotely due to the risk of explosion. Take care as it may
chemical: lazardous combustion products:	decompose upon combustion or in high temperatures to generate poisonous fume. These products include: Nitrogen oxides
Other specific hazards:	Closed containers may explode from heat of a fire.
Advice for firefighters:	Wear self-contained breathing apparatus if possible.
	Combat fire from a sheltered position.
6. ACCIDENTAL RELEASE MEASU	RES
Personal precautions, protective	Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to
equipment and emergency procedures: Environmental precautions:	non-involved personnel should be controlled around the leakage area by roping off, etc. Prevent product from entering drains.
Methods and materials for containment	
and cleaning up: Prevention of secondary hazards:	material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use
	spark-proof tools and explosion-proof equipment. Ensure all leaks are completely removed to prevent
	subsequent ignition.
7. HANDLING AND STORAGE	
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent
-	dispersion of dust. Keep away from heat. Wash hands and face thoroughly after handling. Use a local exhaust if dust or aerosol will be generated.
	Avoid contact with skin, eyes and clothing.
	Don't leave used equipment or rag. This product may ignite if it is left stuck on combustibles such as
Conditions for safe storage, including a	paper, rags, etc. ny incompatibilities
Storage conditions:	Keep container tightly closed. Store in a cool and dark place.
	Be sure not to give the container unexpected impacts, such as falling down or falling off. Store away from combustibles.
Packaging material:	Comply with laws.
8. EXPOSURE CONTROLS / PERSC	DNAL PROTECTION
Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety
	shower and eye bath.
Personal protective equipment	
Respiratory protection:	Dust respirator. Follow local and national regulations.
Hand protection:	Protective gloves.
Eye protection: Skin and body protection:	Safety glasses. A face-shield, if the situation requires. Protective clothing. Protective boots, if the situation requires.

Protective clothing. Protective boots, if the situation requires.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Solid Crystal - Powder Yellow red No data available No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	No data available No data available No data available No data available No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. No data available No data available No data available
Flash point: Flammability(solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	No data available No data available No data available
Solubility(ies): [Water] [Other solvents]	Very soluble No data available		

10. STABILITY AND REACTIVITY

Reactivity:NChemical stability:SPossibility of hazardous reactions:MConditions to avoid:HIncompatible materials:RHazardous decomposition products:N

No data available Stable under proper conditions. May cause fire or explosion on contact with reducing agents or mixing with combustibles. Heat, Shock, Friction, Light Reducing agents, Strong acids, Combustibles, Organic substances, Metal powders Nitrogen oxides (NOx)

OSHA:

No data available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	
No data available	

Skin corrosion/irritation: No data available

Serious eye damage/irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

IARC: No data available

Reproductive toxicity: No data available

Target organ(s):

No data available

NTP:

No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity:	NI 17 111
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	No data available
Bioaccumulative potential(BCF): Mobility in soil	No data available
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law (PaM ³/mol):	No data available

13. DISPOSAL CONSIDERATIONS	
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. Consult an expert of disposal. If it mixes with flammable solvents, it may catch fire. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.
Disposal of container: Other considerations:	Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.

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14. TRANSPORT INFORMATION

DOT (US) UN number: UN1477	Proper Shipping Name: Nitrates, inorganic, n.o.s	Class or Division: 5.1 Oxidizer	Packing Group:
<u>IATA</u> UN number: UN1477	Proper Shipping Name: Nirtates, inorganic, n.o.s	Class or Division: 5.1 Oxidizer	Packing Group: II
IMDG UN UN1477 numb er:	Proper Shipping Name: Nitrates, inorganic, n.o.s	Class or Division: 5.1 Oxidizer	Packing Group: II
EmS number:	F-A, S-Q		

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regul CERCLA Hazardo SARA 313: SARA 302:	lations_ ous substance and Rep	ortable Quantity: Not Listed Not Listed	
State Regulations State Right-to-Kn Massachuset New Jersey Pennsylvania California Propos	ow ts	Not Listed Not Listed Not Listed Not Listed	
Other Information NFPA Rating: Health: Flammability: Instability:	n 2 0 2		HMIS Classification: Health: Flammability: Physical:
International Inve Canada: DSL EC-No:	ntories_	On DSL 240-827-6	

16. OTHER INFORMATION

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TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or 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 chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.