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Cerium(IV) sulfate tetrahydrate msds



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MSDS : Cerium(IV) sulfate tetrahydrate
 CAS : 10294-42-5
 SYNONYMS : Ceric sulfate tetrahydrate; Cerium(4+) sulphate tetrahydrate; Tetrasulfato-ceric acid, tetrahydrate; Ceric disulfate tetrahydrate.

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 [Cerium(IV) sulfate tetrahydrate 10294-42-5]

Suppliers:

Not Available

Buyers:

Not Available

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	EINECS#
10294-42-5	Cerium sulfate tetrahydrate	>99	unlisted

Text for R-phrases: see Section 16

Hazard Symbols: O

Risk Phrases: 8

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Contact with combustible material may cause fire.

Potential Health Effects

Eye:

Causes eye irritation. May cause eye injury.

Skin:

May cause severe irritation and possible burns.

Ingestion:

May cause nausea, vomiting, and diarrhea, possibly with blood.

Inhalation:

Dust is irritating to the respiratory tract.

Chronic:

No information found.

**** SECTION 4 - FIRST AID MEASURES ****

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Get medical aid. Wash clothing before reuse. Flush skin with plenty of soap and water.

Ingestion:

Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

Notes to Physician:

**** SECTION 5 - FIRE FIGHTING MEASURES ****

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Strong oxidizer. Contact with other material may cause fire.

Extinguishing Media:

If water is the only media available, use in flooding amounts.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Do not use combustible materials such as paper towels to clean up spill.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with clothing and other combustible materials. Do not get on skin or in eyes. Keep from contact with clothing and other combustible materials. Avoid breathing dust.

Storage:

Do not store near combustible materials. Keep away from reducing agents. Keep containers tightly closed. Avoid storage on wood floors.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 10294-42-5:

CAS# 13590-82-4:

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate gloves to prevent skin exposure.

Clothing:

Wear appropriate clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State: Solid

Color: slight orange

Odor: odorless

pH: Basic in solution.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 350 deg C (dec)

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: 350 deg C

Solubility in water: Decomposes in water.

Specific Gravity/Density: 3.91

Molecular Formula: Ce(SO4)2.4H2O

Molecular Weight: 404.29

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability:

Stable under normal temperatures and pressures. Ceric sulfate tetrahydrate loses water on heating, becoming anhydrous at 180-200°C; decomposes above 350°C forming CeOSO4. It is soluble in a small quantity of water but decomposes in a large quantity of water with separation of a basic salt.

Conditions to Avoid:

Dust generation, excess heat.

Incompatibilities with Other Materials:

Strong reducing agents.

Hazardous Decomposition Products:

Oxides of sulfur.

Hazardous Polymerization: Will not occur.

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

RTECS#:

CAS# 10294-42-5 unlisted.

CAS# 13590-82-4: WS6960000

LD50/LC50:

Not available.

Not available.

Carcinogenicity:

Cerium sulfate tetrahydrate -

Not listed by ACGIH, IARC, or NTP.

Cerium disulfate, anhydrous -

Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Dispose of in a manner consistent with federal, state, and local regulations.

**** SECTION 14 - TRANSPORT INFORMATION ****

IATA

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

IMO

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

RID/ADR

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing group:

**** SECTION 15 - REGULATORY INFORMATION ****

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: O

Risk Phrases:

R 8 Contact with combustible material may cause fire.

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 10294-42-5: No information available.

CAS# 13590-82-4: No information available.

Canada

CAS# 13590-82-4 is listed on Canada's DSL List.

CAS# 10294-42-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 13590-82-4 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 10294-42-5 is not on the TSCA Inventory because it is a hydrate.

It is considered to be listed if the CAS number for the anhydrous form

is on the inventory (40CFR720.3(u)(2)).

CAS# 13590-82-4 is listed on the TSCA inventory.

**** SECTION 16 - ADDITIONAL INFORMATION ****

Text for R-phrases from Section 2

MSDS Creation Date: 9/02/1997 Revision #5 Date: 10/05/2004

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

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NAME	CAS
6-Amino-2-Naphthoic Acid, 90%	11668-47-4
Zirconium (IV) Oxide, P.A.	1314-23-4
cis-Dichlorodiamineplatinum(II), 99.99%	15663-27-1
1-Bromonaphthalene 96%, contains max. 2% 2-bromonaphthalene	90-11-9
1-Heptanesulfonic acid, sodium salt, monohydrate, HPLC grade	207300-90-1
1-Hexanesulfonic acid sodium salt, HPLC grade	2832-45-3
5-Bromo-1-pentene, 96%	1119-51-3
2,6-Diphenylphenol	2432-11-3
L-Cystine	56-89-3
1-Pentanesulfonic Acid, Sodium Salt Monohydrate, HPLC Grade	22767-49-3
1,1,2-Trichloroethane Density Standard	79-00-5
2-Ethoxyethanol, 99%	110-80-5
Antimony Trichloride	10025-91-9
2-Ethoxyethyl acetate 99%	111-15-9
DL-2-Octanol, 97%	123-96-6

2,2,2-Trifluoroethanol	75-89-8
5-Amino-2-methylindole, 98%	7570-49-2
Bromoacetaldehyde Diethyl Acetal, 97%	2032-35-1
2-Acetylcyclohexanone, 97%	874-23-7
Lauric acid, 98%	143-07-7
4-Methoxy-2-nitroaniline, 98%	96-96-8
1-Nitroso-2-naphthol-3,6-disulfonic acid disodium salt	0-00-0
Toluidine Blue O Zinc Chloride Double Salt	0-01-1
2,4,6-Triphenylpyrylium Chloride, 90%	40836-01-9
2-Isopropoxyethanol, 98%	109-59-1
2,6-Difluorobenzoyl Isocyanate	60731-73-9
1-(4-Chlorophenyl)-1-Cyclopropane- Carboxylic Acid, 99%	72934-37-3
1-Bromo-1-propene, mixture of isomers, 95%	590-14-7
3-Aminopyrrolidine Dihydrochloride	103831-11-4
2,2,4-Trimethylpentane, p.a.	540-84-1
Phenyl Salicylate, 99% (UV-Vis)	118-55-8
MOPS	1132-61-2
p-Naphtholbenzein, 90+% (UV-VIS)	145-50-6
1-Amino-4-Hydroxyanthraquinone, 96%	116-85-8
4-Aminoantipyrine, 98%	83-07-8
Sodium metatungstate, 2.82 density solution in water, stabilized	7732-18-5
8-Hydroxyquinoline, p.a.	148-24-3
3-Methyl-2-Cyclohexen-1-One, 98%	1193-18-6
Cerium(IV) sulfate tetrahydrate	10294-42-5
Sodium metatungstate hydrate, crystalline	12141-67-2
O-Methylbenzyl Cyanide, 98%	22364-68-7
l(-)-Glutathione, oxidized, hydrate, 95%	27025-41-8
Antimony Trioxide	1309-64-4
Dibutyl L-Tartrate	87-92-3
(-)-Terpinen-4-ol, 97%	562-74-3
3,5-Dinitrosalicylic Acid Monosodium Salt, Monohydrate, 97% (Titr.)	46506-88-1
4-Tert.-Butyl-Calix[4]arene-Crown-4-Complex	171058-95-0
4-Tert.-Butyl-Calix[4]Arene-Crown-5-Complex	99314-01-9
4-Tert.-Butyl-Calix[4]Arene-Crown-6-Complex	129518-51-0
2,3,4,5-Tetrafluoro-6-nitrobenzoic acid	16583-08-7

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