

Material Safety Data Sheet

Cesium, 99.95+%

MSDS# 42665

Section 1 - Chemical Product and Company Identification

MSDS Name: Cesium, 99.95+%

Catalog Numbers: AC219190000, AC219190010, AC219190050

Synonyms: None

Acros Organics BVBA Company Identification:

Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium

**Acros Organics** 

One Reagent Lane Company Identification: (USA)

Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01

For information in Europe, call: +32 14 57 52 11 Emergency Number, Europe: +32 14 57 52 99

**Emergency Number US:** 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300

CHEMTREC Phone Number, Europe: 703-527-3887

99.95

Section 2 - Composition, Information on Ingredients

7440-46-2 CAS#: Chemical Name: Cesium

EINECS#: 231-155-4

%.

Hazard Symbols: F C



Risk Phrases:



14/15 34

Section 3 - Hazards Identification

## **EMERGENCY OVERVIEW**

Danger! Water-reactive. May cause central nervous system effects. May cause eye and skin irritation. May cause respiratory and digestive tract irritation. May cause cardiac disturbances. Reacts violently with water. May ignite or explode on contact with moist air. Target Organs: Central nervous system, cardiovascular system.

Potential Health Effects

Has been reported to be noninjurious when applied to rabbit eyes. Eye:

Skin: No information regarding skin irritation and other potential effects was found.

May cause central nervous system effects. May cause cause autonomic disturbances, resulting in effects on the Ingestion:

gastrointestinal tract and heart.

Inhalation: May cause effects similar to those described for ingestion.

Chronic: No information found.

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get Eyes:

medical aid immediately.

Get medical aid immediately. Flush skin with plenty of water for at least 15 minutes while removing Skin:

contaminated clothing and shoes.

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately. Ingestion:

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, Inhalation:

give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:

Section 5 - Fire Fighting Measures

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved

or equivalent), and full protective gear. Can burn in a fire, releasing toxic vapors. Water reactive. Material General will react with water and may release a flammable and/or toxic gas. May ignite or explode on contact with Information:

steam or moist air.

Extinguishing Media:

Do NOT use water directly on fire.

Autoignition Temperature: Not available

Flash Point: Not available

Explosion Not available Limits: Lower:

Explosion Not available Limits: Upper:

NFPA Rating: Not published

Section 6 - Accidental Release Measures

General

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

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then

place into a suitable container for disposal.

Section 7 - Handling and Storage

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not allow water to get Handling: into the container because of violent reaction. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Use only in a chemical fume hood.

Storage: Keep under an argon blanket. Keep away from water. Water free area.

## Section 8 - Exposure Controls, Personal Protection

Chemical Name	+	+	++  OSHA - Final PELs
Cesium	none listed	  none listed 	  none listed

OSHA Vacated PELs: Cesium: None listed

**Engineering Controls:** 

Use explosion-proof ventilation equipment. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

**Exposure Limits** 

Personal Protective Equipment

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face Eyes:

protection regulations in 29 CFR 1910.133 or European Standard EN166.

Wear appropriate protective gloves and clothing to prevent skin exposure. Skin:

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a

Respirators: 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: gold

Odor: None reported. pH: Not available

Vapor Pressure: Not available Vapor Density: Not available Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: 705 deg C @ 760.00mmHg (1,301.00°F)

Freezing/Melting Point: 28.5 deg C (83.30°F)

Decomposition Temperature: Not available

Solubility in water: may decompose Specific Gravity/Density: 1.8730g/cm3

Molecular Formula: Cs Molecular Weight: 132.91

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Strong oxidants.

Incompatibilities with Other Materials Water, oxidizing agents, acids, alcohols, halogens, plastics, sulfur, oxygen.

Hazardous Decomposition Products Oxygen.

Hazardous Polymerization Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 7440-46-2: FK9225000

LD50/LC50: RTECS: Not available.

Carcinogenicity: Cesium - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

**US DOT** 

Shipping Name: CESIUM

Hazard Class: 4.3 UN Number: UN1407 Packing Group: I Canada TDG

Shipping Name: Not available

Hazard Class: UN Number: Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: F C

Risk Phrases:

R 14/15 Reacts violently with water liberating extremely flammable gases.

R 34 Causes burns.

Safety Phrases:

S 8 Keep container dry.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 43A In case of fire, use dry chemical (never use water).

WGK (Water Danger/Protection)

CAS# 7440-46-2: Not available

## Canada

CAS# 7440-46-2 is listed on Canada's NDSL List Canadian WHMIS Classifications: Not available

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 7440-46-2 is not listed on Canada's Ingredient Disclosure List.

## **US Federal**

**TSCA** 

CAS# 7440-46-2 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 9/02/1997 Revision #5 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility 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 event 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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