

Revision Date 03-May-2012

**Revision Number 2** 

# SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Identifier** 

Product Description: Cesium perchlorate

Cat No. 389760000; 389760100; 389760500

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Laboratory chemicals
Uses advised against No Information available

Details of the supplier of the safety data sheet

Company

Acros Organics BVBA Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium

**E-mail address** begel.sdsdesk@thermofisher.com

**Emergency Telephone Number** 

For information in the US, call: 001-800-ACROS-01 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99 Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300 CHEMTREC Phone Number, Europe: 001-703-527-3887

## **SECTION 2. HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

**REGULATION (EC) No 1272/2008** 

| Skin Corrosion/irritation                          | Category 2 |
|--|------------|
| Serious Eye Damage/Eye Irritation                  | Category 2 |
| Specific target organ toxicity - (single exposure) | Category 3 |
| Oxidizing solids.                                  | Category 2 |

## Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

Symbol(s) O - Oxidizing Xi - Irritant

**R-phrase(s)**R 8 - Contact with combustible material may cause fire
Risk Combination Phrases
R36/37/38 - Irritating to eyes, respiratory system and skin



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## **SECTION 2. HAZARDS IDENTIFICATION**

#### **Label Elements**



#### Signal Word Hazard Statements

Danger

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H272 - May intensify fire; oxidizer

#### Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

## Other Hazards

No information available.

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Component                                  | EC-No.            | Weight % | CAS-No     | 67/548/EEC<br>Classification | CLP<br>Classification -<br>Regulation (EC)<br>No 1272/2008                                    | REACH No. |
|--|-------------------|----------|------------|------------------------------|---|-----------|
| Perchloric acid, cesium salt<br>13454-84-7 | EEC No. 236-643-0 | 99       | 13454-84-7 | O; R8<br>Xi; R36/37/38;      | STOT SE 3<br>(H335)<br>Skin Irrit. 2<br>(H315)<br>Eye Irrit. 2<br>(H319)<br>Ox. Sol. 2 (H272) | -         |



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## For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

## **SECTION 4. FIRST AID MEASURES**

**Description of first aid measures** 

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain

medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes. Obtain medical attention.

**Ingestion** Clean mouth with water. Get medical attention.

**Inhalation** Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not

breathing, give artificial respiration. Obtain medical attention.

Notes to Physician Treat symptomatically

## **SECTION 5. FIRE-FIGHTING MEASURES**

#### **Extinguishing media**

### **Suitable Extinguishing Media**

Carbon dioxide (CO<sub>2</sub>). Dry chemical. chemical foam.

#### Extinguishing media which must not be used for safety reasons

No information available.

#### Special hazards arising from the substance or mixture

Oxidizer: Contact with combustible/organic material may cause fire.

## Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

#### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so

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#### Methods and material for containment and cleaning up

Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not let this chemical enter the environment.

## **SECTION 7. HANDLING AND STORAGE**

#### **Precautions for Safe Handling**

Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist. Do not ingest. Use only in area provided with appropriate exhaust ventilation.

## Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Do not store near combustible materials. Store under an inert atmosphere.

## **Specific End Uses**

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

**Exposure limits** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

**Biological limit values** This product, as supplied, does not contain any hazardous materials with biological limits

established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL) Predicted No Effect Concentration** 

(PNEC)

No information available. No information available.

**Exposure controls** 

**Engineering Measures** Ensure adequate ventilation, especially in confined areas Ensure that eyewash stations and

safety showers are close to the workstation location

Personal protective equipment

**Eve Protection Hand Protection** 

Skin and body protection

**Respiratory Protection** 

Goggles Protective gloves

Wear appropriate protective gloves and clothing to prevent skin exposure

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

**Hygiene Measures** 

Handle in accordance with good industrial hygiene and safety practice

No information available. **Environmental exposure controls** 

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**



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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical StatePowder, SolidAppearanceWhiteodorodorless

pHNo information available.Vapor DensityNo information available.Boiling Point/RangeNo information available.

Melting Point/Range 250°C / 482°F Decomposition temperature 250°C / 482°F

Flash Point

Autoignition Temperature

No information available.

No information available.

Water Solubility1.9g/100mlMolecular FormulaCl Cs O4Molecular Weight232.36

## **SECTION 10. STABILITY AND REACTIVITY**

#### Reactivity

#### **Chemical Stability**

Stable under normal conditions. Hygroscopic.

#### **Possibility of Hazardous Reactions**

Hazardous Polymerization Hazardous polymerization does not occur.

**Hazardous Reactions** . No information available.

#### **Conditions to Avoid**

Incompatible products, Exposure to moist air or water, Combustible material.

## **Incompatible Materials**

Strong oxidizing agents, Strong acids, Strong reducing agents, Metals, Powdered metals.

#### **Hazardous Decomposition Products**

Hydrogen chloride gas.

# **SECTION 11. TOXICOLOGICAL INFORMATION**

#### **Information on Toxicological Effects**

**Acute Toxicity** 

**Product Information**No acute toxicity information is available for this product

**Component Information** 

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## SECTION 11. TOXICOLOGICAL INFORMATION

**Chronic Toxicity** 

Carcinogenicity There are no known carcinogenic chemicals in this product

SensitizationNo information available.Mutagenic EffectsNo information availableReproductive EffectsNo information available.Developmental EffectsNo information available.Target OrgansNo information available.

Other Adverse Effects The toxicological properties have not been fully investigated.

**Endocrine Disruptor Information** None known

## **SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity** 

**Ecotoxicity effects** Do not empty into drains

Persistence and degradability

No information available

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessment

Other adverse effects

No information available

## **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods

Waste from Residues / Unused

**Products** 

Dispose of in accordance with local regulations

Contaminated Packaging Empty containers should be taken to local recyclers for disposal



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## **SECTION 14. TRANSPORT INFORMATION**

IMDG/IMO

UN-No 1481 Hazard Class 5.1 Packing Group II

Proper Shipping Name PERCHLORATES, INORGANIC, N.O.S.

**ADR** 

UN-No 1481 Hazard Class 5.1 Packing Group II

Proper Shipping Name PERCHLORATES, INORGANIC, N.O.S.

**IATA** 

UN-No 1481 Hazard Class 5.1 Packing Group II

Proper Shipping Name PERCHLORATES, INORGANIC, N.O.S.

## **SECTION 15. REGULATORY INFORMATION**

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **International Inventories**

| Component                    | EINECS    | ELINCS | NLP | TSCA | DSL | NDSL | PICCS | ENCS | CHINA | AICS | KECL |
|------------------------------|-----------|--------|-----|------|-----|------|-------|------|-------|------|------|
| Perchloric acid, cesium salt | 236-643-0 |        |     | Χ    | -   | Χ    | -     | -    | -     | -    | X    |

#### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**CHINA** - China Inventory of Existing Chemical Substances

**AICS** - Inventory of Chemical Substances

**KECL** - Existing and Evaluated Chemical Substances

#### **Chemical Safety Assessment**



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# **SECTION 16. OTHER INFORMATION**

#### Full text of R-phrases referred to under sections 2 and 3

R 8 - Contact with combustible material may cause fire R36/37/38 - Irritating to eyes, respiratory system and skin

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**Revision Summary** 

Reason for revision Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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