

according to 1907/2006/EC, Article 31



Printing date 20.08.2014

Version number 4

Revision: 08.08.2014

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name: CESIUM ACID PHTHALATE

Article code: CsAP

Registration number:

The registration number is not available, since the substance/mixture or its use is excluded from registration according to article 2 of the REACH Regulation (EC) No. 1907/2006, the annual tonnage does not require a registration or the registration is planned for a later date.

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

Application of the substance / the mixture: X-rays monochromator crystal. Uses advised against: Other uses than the identified uses indicated above.

1.3. Details of the supplier of the safety data sheet Manufacturer/Supplier:
Saint-Gobain Cristaux & Détecteurs
104, Route de Larchant
F-77140 Saint-Pierre-Les-Nemours
Telephone: 0033 (0) 1 64 45 10 10
Fax: 0033 (0) 1 64 45 10 01

Further information obtainable from: customer.service.SGCD@saint-gobain.com

1.4. Emergency telephone number:Centre anti poison et de toxicovigilance (Intoxication centre)Telephone: Paris: +33 (0) 1 40 05 48 48, Marseille: +33 (0) 1 91 75 25 25

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008:



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:

🗙 Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

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2.2. Label elementsLabelling according to Regulation (EC) No 1272/2008:The substance is classified and labelled according to the CLP regulation.

Hazard pictograms:



Signal word: Warning

Hazard statements:H315 Causes skin irritation.H319 Causes serious eye irritation.H335 May cause respiratory irritation.

Precautionary statements:

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and
	easy to do. Continue rinsing.
P362	Take off contaminated clothing and wash before reuse.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P302+P352	IF ON SKIN: Wash with plenty of water.
P312	Call a POISON CENTER/doctor if you feel unwell.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

Results of PBT and vPvB assessment: This substance does not meet the criteria for classification as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances CAS No. Description Cesium acid phthalate (\geq 98%), uncoloured crystal Identification number(s): -

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SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation: Take affected persons into fresh air and keep quiet. Supply fresh air; consult doctor in case of complaints. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. In case of unconsciousness place patient stably in side position for transportation. After skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor. After eye contact: Protect unharmed eye. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Remove contact lenses, if present and easy to do. Continue rinsing.

After swallowing: Rinse mouth. Do not induce vomiting; call for medical help immediately.

4.2. Most important symptoms and effects, both acute and delayed: Irritating to eyes, respiratory system and skin.Erythema (reddening)Inflammation of the skinProlonged/repetitive skin contact may cause skin defattening or dermatitis.

4.3. Indication of any immediate medical attention and special treatment needed First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media Suitable extinguishing agents: Foam Fire-extinguishing powder Carbon dioxide

For safety reasons unsuitable extinguishing agents: Water with full jet



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5.2. Special hazards arising from the substance or mixture
The product is non flammable.
In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
Harmful pyrolysis products
Carbon monoxide (CO)
Carbon dioxide (CO₂)
Metal oxide fume

5.3. Advice for firefightersProtective equipment:Do not inhale explosion gases or combustion gases.Wear self-contained respiratory protective device.Wear fully protective suit.

Additional information:

Collect contaminated fire fighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Remove persons from danger area.
Keep people at a distance and stay on the windward side.
Avoid any contact with eyes or skin.
Avoid formation of dust.
Wear protective clothing.
Do not inhale dust / smoke / mist.
Ensure adequate ventilation.

6.2. Environmental precautions:

Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil. Dumping into the environment must be prevented.

6.3. Methods and material for containment and cleaning up Remove mechanically, placing in appropriate containers for disposal.
Use approved industrial vacuum cleaner for removal.
Ensure adequate ventilation.

Dispose of the material collected according to regulations.

6.4. Reference to other sectionsSee Section 7 for information on safe handling.See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1. Precautions for safe handlingPrevent formation of dust.Provide for sufficient ventilation and punctiform suction at critical points.Avoid breathing dust/fume/gas/mist/vapours/spray.Avoid any contact with eyes or skin. Wear personal protective equipment.

Information about fire - and explosion protection: No special measures required. Usual measures for fire prevention.

7.2. Conditions for safe storage, including any incompatibilitiesRequirements to be met by storerooms and receptacles:Store only in the original container.Access is only to be granted to authorised personal.

Information about storage in one common storage facility: Keep away from food, drink and animal feeding stuffs. Store away from water. Do not store together with oxidizing and acidic materials.

Further information about storage conditions: Store in cool, dry conditions in well sealed containers. Protect from humidity and water. Protect from heat and direct sunlight. Keep the packaging dry and well sealed to prevent contamination and adsorption of dampness.

Storage class: 13 Incombustible solids

7.3. Specific end use(s): See section 1.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities:

Technical measures and the application of adequate working methods take priority over the use of personal protection equipment.

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Occupational exposure limit values for dust should be observed.

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Additional information: The lists valid during the making were used as basis.

8.2. Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Ensure that washing facilities are available at the work place.

Avoid contact with the eyes and skin.

Do not inhale dust / smoke / mist.

Store protective clothing separately.

Respiratory protection:

If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!

Suitable respiratory protective equipment:

Half-mask (EN 140) with filter FFP1 or P2 (EN 149)

Protection of hands:

Tested protective gloves are to be worn. When handling chemical substances, chemical protective gloves must be worn with CE label including a four digit code. Type of chemical protective gloves to choose depends on the concentration and quantity of dangerous substances as well as on work place specifications. In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Material of gloves: Recommendation: Nitrile rubber, NBR

Butyl rubber, BR Recommended thickness of the material: ≥ 0.35 mm

Penetration time: > 480 min

(EN 374)

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles (EN 166)

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Body protection: Only wear fitting, comfortable and clean protective clothing. Recommendation: Protective work clothing Boots

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Information		
Appearance:		
Form:	Solid	
Calavia	Crystalline	
Colour:	White	
Odour:	Odourless	
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	Not determined.	
Decomposition temperature:	250 °C	
Self-igniting:	Product is not selfigniting.	
Danger of explosion:	Not explosive.	
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Vapour pressure:	Not applicable.	
Density at 25 °C:	2.19.40	
Density at 25 °C:	2.18 g/cm ³	
Vapour density:	Not applicable.	
Evaporation rate:	Not applicable.	

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Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.

9.2. Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity: The product is stable under standard conditions (temperature, pressure) of storage and handling.

10.2. Chemical stability:

The product is stable under standard conditions (temperature, pressure) of storage and handling.

10.3. Possibility of hazardous reactions: No dangerous reactions known.

10.4. Conditions to avoid: Avoid generation of dust. Protect from direct sunlight. Heat Water / moisture

10.5. Incompatible materials: Oxidizing agents Acids

10.6. Hazardous decomposition products: Danger of forming toxic pyrolysis products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects Acute toxicity: LD/LC50 values relevant for classification: No information available.

Primary irritant effect: on the skin: Irritant to skin and mucous membranes. on the eye: Irritating effect. on the respiratory tract:

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May cause respiratory irritation.

Sensitization: No sensitizing effects known.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): Carcinogenicity: No indications of human carcinogenicity exist. Mutagenicity: No indications of human germ cell mutagenicity exist. Reproductive toxicity: No indications of human reproductive toxicity exist.

SECTION 12: Ecological information

12.1. Toxicity Aquatic toxicity: No further relevant information available.

12.2. Persistence and degradability: No further relevant information available.

12.3. Bioaccumulative potential: No indication of bio-accumulation potential.

12.4. Mobility in soil: No further relevant information available.

General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

12.5. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

12.6. Other adverse effects: No further relevant information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Hand over to officially registered waste disposal company. Waste disposal according to official state regulations.

Uncleaned packaging:

Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Packagings that may not be cleansed are to be disposed of in the same manner as the product. Disposal must be made according to official regulations.

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SECTION 15: Regulatory information

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

EU-Regulations Regulation (EC) No 1907/2006 (REACH) Regulation (EC) No 1272/2008 (CLP) Directives 67/548/EEC and 1999/45/EC

Labelling according to Regulation (EC) No 1272/2008: GHS label elements

National regulations:

Information about limitation of use: Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed.

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Employment restrictions concerning women of child-bearing age must be observed.

Other regulations, limitations and prohibitive regulations: National legislation has to be observed!

15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Training hints

The product should only be handled by persons, who were informed sufficiently about the nature of the product and about the necessary safety precautions.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

* Data compared to the previous version altered.

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