



PRESIDENTIAL PROGRAMMES FOUNDATION

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SAFETY DATA SHEET

Potassium Osmate (VI) based on stable isotope ¹⁸⁷Os

Version Number 1.01

230512-002

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Product name : Potassium Osmate (VI) based on stable isotope ¹⁸⁷Os
Chemical name : osmate (oso42-), dipotassium, (T-4)-
Synonyms : osmate (oso42-), dipotassium, (T-4)-
Chemical formula : K₂[OsO₂(OH)₄]

Company/undertaking identification

Manufacturer : 191025, Kolokolnaya str., bid.2/18-21, St.Petersburg, RUSSIAN FEDERATION
Emergency telephone number : +7 (812) 712-3219

2. Composition/information on ingredients

Substance/preparation : Substance

Ingredient name	CAS number	%	EC Number	Classification
osmate (oso42-), dipotassium, (t-4) See section 16 for the full text of the R Phrases declared above	19718-36-6	100	243-247-1	Xi; R41

* Occupational Exposure Limit(s), if available, are listed in Section 8

3. Hazards identification

The substance is classified as dangerous according to Directive 67/548/EEC and its amendments

Classification : Xi;R41
Human health hazards : Risk of serious damage to eyes.

See section 11 for more detailed information on health effects and symptoms.

4. First aid measures

First aid measures

Inhalation : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.

Ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Skin Contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention if symptoms occur.

Eye contact : In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Obtain medical attention immediately.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media : Use an extinguishing agent suitable for surrounding fires

Special exposure hazards : No specific hazard.

Hazardous thermal decomposition products : Some metallic oxides.

Special protective : Fire fighters should wear appropriate protective equipment and self-contained

Potassium Osmate (VI)

- equipment for fire-fighters : breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Remark : The residue, ash or char left after a fire may have catalytic properties and may promote the re-ignition of flammable materials and vapours.

6. Accidental release measures

- Personal Precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable vacuum or carefully scoop up spilled materials and place in an appropriate container for disposal. Avoid creating dusty conditions and prevent wind dispersal.

7. Handling and storage

- Handling** : Avoid contact with eyes. Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.

Packaging materials

- Recommended** : Use original container.

8. Exposure controls/personal protection

- Exposure limit values** : Not available.

Exposure controls

- Occupational exposure controls** : Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
- Respiratory protection** : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hand protection** : Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- Skin protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

9. Physical and chemical properties

General information

- Appearance**
- Physical state** : Solid. (Solid crystalline powder.)
- Colour** : Violet.

Important health, safety and environmental information

- Melting point** : Decomposes.
- Solubility** : Insoluble in methanol, diethyl ether.

10. Stability and reactivity

- Stability** : The product is stable.
- Materials to avoid** : Reactive with oxidising agents.

11. Toxicological information

Potential acute health effects

- Eye contact** : Severely irritating to eyes.

Acute toxicity

- | Product/ingredient name | Test | Result | Route | Species |
|--------------------------------------|------|------------|-------|---------|
| osmate (oso42-), dipotassium, (T-4)- | LD50 | 2694 mg/kg | Oral | Rat |

12. Ecological information

Biodegradability : Not available.

- Other adverse effects** : No known significant effects or critical hazards.

13. Disposal considerations

Methods of disposal : Return accumulated waste material to the refinery for metal recovery, or dispose of in accordance with local and national regulations.

14. Transport information

The material does not pose a safety hazard during transportation by any mode of transport.

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional Information
ADR/RID Class	Not available.	Not available.	Not available.	-		-
IMDG Class	Not available.	Not available.	Not available.	-		-
IATA Class	Not available.	Not available.	Not available.	-		-

15. Regulatory information

EU Regulations

Hazard symbol(s) :



Risk Phrases : Irritant
: R41- Risk of serious damage to eyes.

Safety Phrases : S22- Do not breathe dust.
: S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Product use : Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use.
- Industrial applications.

16. Other information

Full text of R phrases referred to in sections 2 and 3 : R41- Risk of serious damage to eyes.

Full text of classifications referred to in sections 2 and 3 : Xi - Irritant

History

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Conforms to 91/155/EEC - 2001/58/EC.