

SAFETY DATA SHEET on Tellurium Dioxide

Nippon Rare Metal, Inc.

No.2-15-1 Nakayama, Midori-ku, Yokohama 226-0019 Japan

Tel:+81-45-931-4841, Fax:+81-45-932-8401, E-mail:info@nrm-inc.co.jp

SDS No. MH10-15-002

Creation Date: 2013/5/27

Revised Date: 2018/9/10

Review Date: 2024/3/5

1. Chemical Product

SDS Name : Tellurium Dioxide
SDS No. : MH10-15-002

2. Composition, Information on ingredients

CAS# : 7446-07-3
Chemical formula: : TeO₂

3. Hazardous Identification

Appearance : White

The toxicological properties of this material have not been fully investigated. May cause digestive tract
Possible risks of irreversible effects.Harmful if inhaled or swallowed.

Target Organs : None known

Potential Health Effects

Eye : May cause eye irritation

Skin : May cause skin irritation.

Ingestion : Harmful if swallowed.May cause irritation of the digestive tract.

Ingestion of tellurium may product symptoms such as "garlic-like"
order of the breath and sweat,dryness of the mouth, metallic taste,
somnia, anorexia,and nausea.

Inhalation : Harmful if inhaled.May cause respiratory tract irritation.

4. First Aid measures

Eye : Flush eyes with plenty of water for at least 15 minutes,
Occasionally lifting the upper and lower eyelids. Get medical aid.

Skin : Get medical aid. Flush skin with plenty of soap and water for at least
15minutes while removing contaminated clothing and shoes.

Ingestion : Never give anything by mouth to an unconscious person. Get medical
aid. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk
or water.

Inhalation : Remove from exposure to fresh air immediately. If not breathing, give
artificial respiration. Get medical aid.

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. During a fire, irritating and highly toxic gases may be
generated by thermal decomposition or combustion.

Extinguish media : Use water spray, dry chemical, carbon dioxide or appropriate foam.

6. Accidental Release Measures

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

Spills/Leaks : Vacuum or sweep up material and place into a suitable disposal
Container.

Avoid generating dusty condition. Provide ventilation.

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 eyes, skin, and clothing. Avoid ingestion and inhalation.
- Storage** : Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

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 concentration low.
- Controlled concentration** : 0.1mg(Te)/m³ OSHA PEL
- Occupational exposure limits** : 0.1mg(Te)/m³ AGGIH TLV
- 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 EN 166.
 - Skin-Wear appropriate protective gloves to prevent skin exposure.
 - Clothing-Wear appropriate clothing to prevent skin exposure.

9. Physical and Chemical Properties

- Physical state** : Crystalline powder
- Appearance** : White
- Odor** : Odorless
- Specific Gravity** : 5.89
- Boiling point** : 1245°C
- Melting point** : 733°C
- Flash point** : Not available
- Solubility** : Insoluble in water
- Molecular formula** : TeO₂
- Molecular weight** : 159.6

10. Stability and Reactivity

- Chemical Stability** : Stable under normal temperatures and pressures.
- Incompatibilities with other materials** : Strong oxidizing agents, strong acids and Active metals.
- Hazardous Decomposition products** : Irritating and toxic fumes and gases

11. Toxicological Information

- RTECS#** : 7446-07-3

| | | |
|-----------------------------|----------|---------------------------------|
| Carcinogen city | : | No information available |
| Epidemiology | : | No information available |
| Teratogenicity | : | No information available |
| Reproductive Effects | : | No information available |
| Other Studies | : | Not data available. |

12. Ecological Information : **No information available**

13. Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Waste generators must consult state and local hazardous waste regulation to ensure complete and accurate classification.

14. Transport information

| | | |
|----------------------|----------|--------------------------|
| Shipping name | : | Tellurium Dioxide |
| Hazard Class | : | NONE |
| UN number | : | NONE |

15. Regulatory Information

US Federal

TSCA

CAS#7446-07-3 is listed on the TSCA inventory.

OSHA

None of the chemicals in this product are considered highly hazardous by OSHA.

16. Additional Information

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 damages, howsoever arising, even if the company has been advised of the possibility of such damages.