

MATERIAL SAFETY DATA SHEET

Product Name: Noritake Meister Cones
MSDS No Noritake Meister Cones (J2005—G2)E ,Ver1.2
Revised: 1st April, 2012

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

1.1 Product identifier

Trade name/designation Noritake Meister Cones

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

Relevant identified uses Dental Material

Uses advised against No information

1.3 Details of the supplier of the safety data sheet

•Manufacturer:

Kuraray Noritake Dental Inc.
300 Higashiyama, Miyoshi-cho, Miyoshi, Aichi 470-0293 JAPAN

•Supplier:

For US

Kuraray America, Inc.
33 Maiden Lane, 6th Floor, New York, NY 10038 U.S.A.
Phone: 800-879-1676 Fax: 888-700-5200
Website: www.kuraraydental.com

For Europe

Kuraray Europe GmbH
Philipp-Reis-Str. 4, 65795 Hattersheim am Main, Germany
Phone: +49 (0)69 305 35 840 Fax: +49 (0)69 305 35 640
E-mail: dental@kuraray.de

For Other countries

Kuraray Noritake Dental Inc.

•Information department: Supplier

2.HAZARDS IDENTIFICATION

2.1 Classification of the mixture

GHS classification

| | |
|-----------|----------|
| STOT SE.3 | H335,336 |
| STOT RE.1 | H372 |

2.2 Label elements

Hazard pictograms



Signal word:

Danger

Hazard statements:

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

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- P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P304+P340 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/Physician If you feel unwell.
P314 Get medical advice/attention if you feel unwell.
P403+P233 Store in a well-ventilated place, Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

3.COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Description of the mixture: silver , Solid

3.2 Hazardous ingredients:

| CAS No. | EC-No. | MITI-No. | % (w/w) | Name | Remark |
|-----------|-----------|----------|---------|-----------------|--------|
| 1344-28-1 | 215-691-6 | 1-23 | 25-35 | Aluminium oxide | |

4.FIRST AID MEASURES

4.1 Description of first aid measure

- General notes Get immediate medical advice/attention.
If on skin Wash with plenty soap and water.
If inhaled Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If swallowed Call a POISON CENTER or doctor/physician if you feel unwell.
If in eyes Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Notes for the doctor Pass on all available product information.

4.2 Most important symptoms and effects, both acute and delayed.

No information

4.3 Indication of immediate medical attention and special treatment needed.

No information

5.FIRE-FIGHTING MEASURES

5.1 Extinguishing media

- Suitable extinguishing media
Water-spray, CO₂, powder, sand or foam, etc.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unusable extinguishing media
No information available.

5.2 Special hazards arising from the substance or mixture

- Hazardous combustion products There is a possibility that the gas with stimulation or toxicity is produced depending on the kind of a fire.

5.3 Advice for fire-fighters

- If it is not very dangerous, move containers from a fire in the surrounding area.
During extinction, wear a suitable heat-resistant protective suits against chemicals and self contained breathing apparatus.
Extinguish fire by pouring or spreading extinguishing media on the origin of a fire.
Extinguish fire from windward side as much as possible.
Extinguish fire by the method of covering tightly or suffocation is preferable.
Even after extinction, cool down containers by using plenty of water.

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6.ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency

Protective equipment Operators wear suitable protective equipment refer to section8 and avoid inhalation and contact with eyes and skin.

Removal of ignition sources, provision of sufficient ventilation, control of dust

Remove every source of ignition immediately. (Prohibit smoking, using sparks and flames nearby this product.) Ventilate for exhaust to keep concentration in air below a limit of exposure.

Emergency procedures Isolate this product immediately and keep proper distance to every direction as released area.

Stop leakage, if it is not dangerous. Isolate this product immediately and keep proper distance to every direction as released area.

Indicate that only authorized people can enter.

Do not touch released product and walk on it.

For emergency responders

Wear a chemical protective clothing.

6.2 Environmental Precautions

Prevent inflow into ditches, sinks, basements or closed places. Take notice not to discharge this product to rivers etc. and not to affect environment.

6.3 Methods and material for containment and cleaning up

For containment Keep container tightly closed.

For cleaning up If the amount of leakage is small, absorb it by dried sand, soil, sawdust and waste paper and collect it into a tightly covered container made of metal.

Other information No information

6.4 Reference to other sections See section 8 and 13.

6.5 Additional information No information.

7.HANDLING AND STORAGE

7.1 Precautions for safe handling

Information on safe handling

Take measure against equipments written in section8 and wear protective equipment.

Exhaust locally and ventilate totally as written in section8.

To prevent handling of incompatible substances or mixtures

Avoid contact with incompatible materials. Please refer to section10.

To minimize the release to the environment

Take notice not to discharge this product to rivers etc. and not to affect environment.

Advice on general occupational hygiene

Obtain Instructions before using this product.

Do not handle products until you have read and understood every instruction for safety.

To prevent exposure, wear protective during operation.

Watch out for fire.

Prohibit using heated substances, sparks and fire on the periphery of this product.

Ventilate for exhaust to keep concentration in air below a limit of exposure.

Avoid inhaling dust and fume.

Do not touch, inhale or swallow this product.

Do not take polluted work clothes out of workshops.

Do not drink, eat or smoke during using this product.

Use this product only outside or well ventilated area.

Wash hands well after handling this product.

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Avoid emitting this product to environment.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Store in dried and properly ventilated place.

Install equipments for lighting and ventilation which are necessary for handling and storing dangerous goods in a storage place.

Packaging materials

If containers are stipulated in transportation regulations of containers United Nations.

Requirements for storage rooms and vessels

Store apart from dangerous substance to mix and touch.

Seal a container and store it in a well ventilated and cool place.

It is preferable to store a container in a locked place.

Further Information on storage conditions

No information

7.3 Specific end use(s)

Recommendations

No information

Industrial sector specific solutions

No information

8.EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure limit values

No Information

8.2 Exposure controls

Appropriate engineering controls

When the mists are generated, the ignition source is made to seal up, and the exhaust device is installed. Install ventilation facility if dust and fume occurs during hot heated processes.

Personal protection equipment

Eye and face protection : Use appropriate protectors for eyes.

Skin protection

Hand protection : Use appropriate protective gloves.

Body protection : Use appropriate protective clothes and masks if necessary.

Other protection : —

Respiratory protection : Wear appropriate respiratory protection.

Thermal hazards : —

9.PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------------------------|----------------|
| Physical state, shape and colors etc. | Silver , Solid |
| Odor | No odor |
| pH | No data |
| Melting point/coagulation point | No data |
| Boiling point | No data |
| Flash point | No data |
| Explosive range | No data |
| Vapor pressure | No data |
| Vapor density(air=1) | No data |
| Relative density (density) | No data |
| Solubility | No data |
| Partition coefficient: octanol/ water | No data |

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| Auto-ignition temperature | No data |
| Decomposition temperature | No data |
| Limit value of odor | No data |
| Vaporization speed (butyl acetate=1) | No data |
| Combustion Characteristics (solid and gas) | No data |
| Viscosity | No data |

10. STABILITY AND REACTIVITY

10.1 Reactivity

Not in particular.

10.2 Chemical Stability

Stable, if it is use and a storage method described in this SDS.

10.3 Possibility of hazardous reactions

Not in particular.

10.4 Conditions to avoid

Not in particular.

10.5 Incompatible materials

No data.

10.6 Hazardous decomposition product

No data.

11. TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity

No information available

11.2 Skin corrosion/irritation

No information available

11.3 Serious eye damage/irritation

No information available

11.4 Respiratory or skin sensitization

No information available

11.5 Germ cell mutagenicity

No information available

11.6 Carcinogenicity

No information available

11.7 Reproductive toxicity

No information available

11.8 STOT—single exposure

As Aluminium oxide

It was set as category 3 (respiratory irritation) from the statement of upper respiratory irritation (ICSC (2000)).

11.9 STOT—repeated exposure

As Aluminium oxide

It was classified into Category 1 according the statement that by occupational exposure of aluminas, pulmonary fibrosis was occurred (EHC (1997)).

11.10 Aspiration hazard

No information available

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12. ECOLOGICAL INFORMATION

- 12.1 Toxicity
No information available
- 12.2 Persistence and degradability
No information available
- 12.3 Bioaccumulative potential
No information available
- 12.4 Mobility in soil
No information available
- 12.5 Other adverse effects
No information

13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods
 - Product/ Packaging disposal In disposal, follow relevant regulations and standards of municipalities. If industrial waste disposer permitted by governors or regional public organization handle disposition, commit it to them. If you commit a disposal of waste, notify sufficiently disposer of risk and harmfulness beforehand. Clean and recycle containers or dispose them properly based on relative regulations and standards of municipalities. When empty containers are disposed, its content must be removed completely.
 - Waste treatment options Dispose of waste according to applicable local, state, federal laws and regulations.
 - Sewage disposal options Do not discharge to a water source.
 - Other disposal recommendations No information
- 13.2 Additional information No information

14. TRANSPORT INFORMATION

- Road/Rail (ADR/RID) Not subject to ADR/RID.
- Sea transport (IMDG) Not subject to IMDG code.
- Air transport (IATA) Not Subject to IATA regulations.

15. REGULATORY INFORMATION

This MSDS is according to Globally Harmonized System of Classification and Labeling of Chemicals (GHS).
Use in accordance with local/regional/national/international regulations.

16. OTHER INFORMATION

- 16.1 Indication of changes and preparation date
 - Preparation date 9th April, 2012
 - Revised 9th April, 2012
- 16.2 Abbreviations and acronyms
 - ACGIH American Conference of Governmental Industrial Hygienists
 - ATE Acute Toxicity Estimate

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| | |
|-----------|--|
| CAS No. | Chemical Abstract Service number |
| EC No. | EINECS and ELINCS Number |
| EINECS | European Inventory of Existing Commercial Substances |
| ELINCS | European List of notified Chemical Substances |
| GHS | Globally Harmonized System |
| LC50 | Lethal concentration, 50% |
| LD50 | Median Lethal Dose |
| MSDS | Material Safety Data Sheet |
| MITI No. | Ministry of International Trade and Industry Number |
| NITE | National Institute of Technology and Evaluation |
| OEL | Occupational Exposure Limit |
| SDS | Safety Data Sheet |
| STOT | Specific Target Organ Toxicity |
| (STOT) RE | Repeated Exposure |
| (STOT) SE | Single Exposure |
| TWA | Time Weighted Average |

16.3 Key literature references and sources for data

The result of classification of substance by NITE Japan. (<http://www.safe.nite.go.jp/ghs/list.html>)

16.4 Handling of information given in this MSDS

Information given in this MSDS may be insufficient for not all records and references were investigated. Its content can be changed due to release of new data and correction of conventional theories. Therefore, when you use this MSDS for an important decision, it is recommended to check its content by running tests or to study its references carefully. We also do not guarantee the number about the content, physical or chemical properties. Notes are applicable to normal handling and care must be taken in case of special handling.