



# Product Safety Information

Issuing Date 2013-07-15

Revision Date 2015-11-04

Revision Number 2

## 1. Identification of the substance/preparation and of the Company/undertaking

### Product Identifier

Product Type KMT - Ceramic tools, articles  
Product name **KY3500**  
Product code KA0083-0

### Other means of identification

Synonyms No information available

### Recommended use of the chemical and restrictions on use

Recommended Use For use in industrial installations only. Metalworking Tools.

### Details of the Supplier of the Safety Data Sheet

#### Emergency Telephone Number

Emergency Telephone Number CHEMTREC: +1-703-527-3887 (INTERNATIONAL)  
1-800-424-9300 (NORTH AMERICA)

NRC (National Response Center) USA, Poison Centres +1 800 222 1222  
Canada, IWK Regional Poison Center +1 902 470 8161 or 1 800 565 8161

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## 2. Hazards Identification

### Classification

### Label Elements

## Emergency Overview

Appearance grey

Physical State solid

Odor none

Hazards not otherwise classified (HNOC)

### OTHER INFORMATION

## 3. Composition/Information on Ingredients

Chemical name	Formula	CAS-No	weight-%	GHS Classification
Silicon Nitride	Si <sub>3</sub> N <sub>4</sub>	12033-89-5	> 50	
Yttrium Oxide	Y <sub>2</sub> O <sub>3</sub>	1314-36-9	1 - 2.5	
Magnesium silicate, forsterite	Mg <sub>2</sub> SiO <sub>4</sub>	15118-03-3	1 - 2.5	

\* The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. First aid measures

### FIRST AID MEASURES

<b>General advice</b>	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
<b>Eye Contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.
<b>Skin contact</b>	Wash skin with soap and water.
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	Clean mouth with water.
<b>Self-protection of the first aider</b>	Self-protection of the first aider. Wear suitable gloves.

### Most important symptoms and effects, both acute and delayed

<b>Most important symptoms and effects, both acute and delayed</b>	Hives.
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### Indication of any immediate medical attention and special treatment needed

<b>Notes to Physician</b>	Treat symptomatically.
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## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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**Specific hazards arising from the chemical**

<b>Protective equipment and precautions for firefighters</b>	Use personal protective equipment as required
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**Component Information**

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions**

**Environmental precautions**

**Methods and material for containment and cleaning up**

Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so. Collect in closed and suitable containers for disposal.

## 7. Handling and Storage

**Precautions for safe handling** Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

<b>Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place.
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**Incompatible products** None known based on information supplied.

## 8. Exposure Controls/Personal Protection

### Control parameters

Chemical name	USA - ACGIH TLV	USA - OSHA PEL	USA - NIOSH IDLH	Argentina	Brazil
Yttrium Oxide	-	-	-	TWA: 1 mg/m <sup>3</sup>	
Chemical name	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec	Canada - Manitoba
Yttrium Oxide					1 mg/m <sup>3</sup> TWA (as Y)
Chemical name	Chile	Mexico OEL (TWA)	Peru	Uruguay	Venezuela
Yttrium Oxide		-			TWA: 1 mg/m <sup>3</sup>

### Appropriate engineering controls

#### Engineering controls

Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye Protection** Wear safety glasses with side shields (or goggles).

**Skin Protection** Long sleeved clothing.

**Hand Protection** Protective gloves.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

**Biological standards**

### 9.1 Information on basic physical and chemical properties

<b>Physical State</b>	solid	<b>Appearance</b>	grey
<b>Odor</b>	none	<b>flash point</b>	not applicable

### 9.2. Other information

**VOC Content (%)** Not Applicable

### Component Information

Chemical name	Mol. Weight	Water Solub.	Vap. Press.	Vap. Dens.	pH Val.	Autoign. Temp.	Evap. Rate	Boil. Temp.
Silicon Nitride	140.28 g/mol							
Yttrium Oxide	225.80 g/mol							

## 10. Stability and Reactivity

### Reactivity

No data available

### Chemical stability

**Possibility of Hazardous Reactions** None under normal processing.  
Extremes of temperature and direct sunlight.

### Conditions to avoid

### incompatible materials

**Hazardous decomposition products** None known based on information supplied.

## 11. Toxicological Information

## Information on likely routes of exposure

## Information on toxicological effects

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Target organ effects                      Eyes, respiratory system, Skin.

### Numerical measures of toxicity - Product Information

mg/kg   mg/l

## 12. Ecological Information

### 12.1. Ecotoxicity

12.2 Persistence and degradability      No information available.

Bioaccumulation/Accumulation              No information available.

12.6 Other adverse effects                      None known

## 13. Disposal Considerations

### Waste treatment methods

It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

## 14. Transport Information

DOT    Not regulated

TDG    Not regulated

MEX    Not regulated

IMO / IMDG    Not regulated

ICAO / IATA-DGR    Not regulated

## 15. Regulatory Information

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*  
*DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List*

### U.S. Federal Regulations SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

## SARA 311/312 Hazard Categories

Acute health hazard	no
Chronic Health Hazard	no
Fire Hazard	no
Sudden release of pressure hazard	no
Reactive Hazard	no

## Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

## CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

## U.S. State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

### U.S. EPA Label information

## CANADA

### WHMIS Statement

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

## 16. Other Information

### Global Automotive Declarable Substance List Classifications

<u>NFPA</u>	Health hazard 0	Flammability 0	Instability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health hazard 0	Flammability 0	Physical hazards 0	Personal precautions X

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Revision Note No information available

### Disclaimer

Kennametal urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific SDSs, we are not and cannot be responsible for SDS's obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.

End of Safety Data Sheet