

**SAFETY DATA SHEET**

**Revision Date** 10-Feb-2015

**1. Identification**

**Product Name Shark Cut-Off Wheels**

**Cat No. : Zirconium Oxide**

**Synonyms** None.

**Recommended Use** Laboratory chemicals.

**Uses advised against** No Information available

**Details of the supplier of the safety data sheet**

**Company**

**Shark Industries**

**6700 Bleck Drive**

**Rockford, MN**

**55373**

Tel: (800) 537-4275

**CHEMTREC** Tel. No.**US:**001-800-424-9300

**Classification**

**2. Hazard(s) identification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation Category 2

Specific target organ toxicity (single exposure) Category 3

Target Organs - Respiratory system.

**Label Elements**

**Signal Word**

Warning

**Hazard Statements**

Causes serious eye irritation

May cause respiratory irritation



**Precautionary Statements**

**Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area **Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

**Storage**

Store in a well-ventilated place. Keep container tightly closed

Store locked up

**Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

None identified

**3. Composition / information on ingredients**

|  |  |  |
| --- | --- | --- |
| **Component** | **CAS-No** | **Weight %** |
| Zirconium oxide | 1314-23-4 | 100 |

**4. First-aid measures**

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes.

**Inhalation** Move to fresh air. **Ingestion** Do not induce vomiting. **Most important symptoms/effects** No information available.

**Notes to Physician** Treat symptomatically

**5. Fire-fighting measures**

**Unsuitable Extinguishing Media** No information available

**Flash Point**

**Method -** No information available

**Autoignition Temperature** 1000 °C

**Explosion Limits**

**Upper** No data available **Lower** No data available **Sensitivity to Mechanical Impact** No information available **Sensitivity to Static Discharge** No information available

**Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

**Hazardous Combustion Products**

None known

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full

protective gear.

**NFPA**

**Health**

2

**Flammability**

0

**Instability**

0

**Physical hazards**

N/A

**6. Accidental release measures**

**Personal Precautions** Ensure adequate ventilation. Use personal protective equipment.

**Environmental Precautions** See Section 12 for additional ecological information.

**Methods for Containment and Clean** No information available.

**Up**

**7. Handling and storage**

**Handling** Ensure adequate ventilation.

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Exposure Guidelines**

**8. Exposure controls / personal protection**

|  |  |  |  |
| --- | --- | --- | --- |
| **Component** | **ACGIH TLV** | **OSHA PEL** | **NIOSH IDLH** |
| Zirconium oxide | TWA: 5 mg/m3STEL: 10 mg/m3 | (Vacated) TWA: 5 mg/m3(Vacated) STEL: 10 mg/m3 | IDLH: 25 mg/m3TWA: 5 mg/m3STEL: 10 mg/m3 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Component** | **Quebec** | **Mexico OEL (TWA)** | **Ontario TWAEV** |
| Zirconium oxide | TWA: 5 mg/m3STEL: 10 mg/m3 | TWA: 5 mg/m3STEL: 10 mg/m3 | TWA: 5 mg/m3STEL: 10 mg/m3 |

***Legend***

***ACGIH*** *- American Conference of Governmental Industrial Hygienists*

***OSHA*** *- Occupational Safety and Health Administration*

***NIOSH IDLH:*** *The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health*

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment**

**Eye/face Protection** 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 EN166.

**Skin and body protection** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

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

**9. Physical and chemical properties**

**Physical State** Powder Solid

**Appearance** White

**Odor** Odorless

**Odor Threshold** No information available

**pH**

**Melting Point/Range** 2700 °C

**Boiling Point/Range** °C

**Flash Point**

**Evaporation Rate** No information available **Flammability (solid,gas)** No information available **Flammability or explosive limits**

**Upper** No data available

**Lower** No data available

**Vapor Pressure** No information available **Vapor Density** No information available **Relative Density** 5.60

**Solubility** Insoluble in water **Partition coefficient; n-octanol/water** No data available **Autoignition Temperature** 1000 °C **Decomposition Temperature** No information available **Viscosity** No information available **Molecular Formula** ZrO2

**Molecular Weight** 123.2188

**10. Stability and reactivity**

**Reactive Hazard** None known, based on information available

**Stability** Stable under normal conditions. **Conditions to Avoid** Incompatible products. **Incompatible Materials** Strong oxidizing agents **Hazardous Decomposition Products** None under normal use conditions

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

**Acute Toxicity**

**11. Toxicological information**

**Component Information Toxicologically Synergistic Products**

No information available

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

**Irritation** No information available

**Sensitization** No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Component** | **CAS-No** | **IARC** | **NTP** | **ACGIH** | **OSHA** | **Mexico** |
| Zirconium oxide | 1314-23-4 | Not listed | Not listed | Not listed | Not listed | Not listed |

**Mutagenic Effects** No information available

**Reproductive Effects** No information available. **Developmental Effects** No information available. **Teratogenicity** No information available. **STOT - single exposure** Respiratory system

**STOT - repeated exposure** None known

**Aspiration hazard** No information available

**Symptoms / effects,both acute and delayed**

No information available

**Endocrine Disruptor Information** No information available

**Other Adverse Effects** The toxicological properties have not been fully investigated.

**Ecotoxicity**

Do not empty into drains.

**12. Ecological information**

**Persistence and Degradability** No information available

**Bioaccumulation/ Accumulation** No information available.

**Mobility** No information available.

**13. Disposal considerations**

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

**14. Transport information**

**DOT** Not regulated **TDG** Not regulated **IATA** Not regulated **IMDG/IMO** Not regulated

**15. Regulatory information**

**International Inventories**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Component** | **TSCA** | **DSL** | **NDSL** | **EINECS** | **ELINCS** | **NLP** | **PICCS** | **ENCS** | **AICS** | **IECSC** | **KECL** |
| Zirconium oxide | X | X | - | 215-227-2 | - |  | X | X | X | X | X |

**Legend:**

**X - Listed**

**E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA. F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.**

**N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.**

**P - Indicates a commenced PMN substance**

**R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA. S - Indicates a substance that is identified in a proposed or final Significant New Use Rule**

**T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.**

**XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base**

**Production and Site Reports (40 CFR 710(B).**

**Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.**

**Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.**

**U.S. Federal Regulations**

**TSCA 12(b)** Not applicable

**SARA 313** Not applicable

**SARA 311/312 Hazardous Categorization**

**Acute Health Hazard** Yes

**Chronic Health Hazard** No

**Fire Hazard** No **Sudden Release of Pressure Hazard** No **Reactive Hazard** No

**Clean Water Act** Not applicable **Clean Air Act** Not applicable **OSHA** Occupational Safety and Health Administration

Not applicable

**CERCLA**

Not applicable

**California Proposition 65** This product does not contain any Proposition 65 chemicals

**State Right-to-Know**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Component** | **Massachusetts** | **New Jersey** | **Pennsylvania** | **Illinois** | **Rhode Island** |
| Zirconium oxide | X | - | - | - | X |

**U.S. Department of Transportation**

Reportable Quantity (RQ): N DOT Marine Pollutant N DOT Severe Marine Pollutant N

**U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

**Other International Regulations**

**Mexico - Grade** No information available

**Canada**

**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**

**WHMIS Hazard Class** D2B Toxic materials

**16. Other information**

**Revision Date** 10-Feb-2015

**Print Date** 10-Feb-2015

**Revision Summary** This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

**Disclaimer**

**The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage,**

**transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.**

**End of SDS**