



SAFETY DATA SHEET

Voluntary informative product safety data sheet (SVIP),
according to GHS – GLOBAL HARMONISED SYSTEM, Reg. EC 1907/2006 and to Reg. EU
453/2010

| 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION | | | | | |
|---|--|---------------------|---|------------|-----------|
| Product name | Shark Industries – GRINDING DISCS | | | | |
| Description and use | Abrasive material rigid organic binder Use: grinding of metals | | | | |
| Company name | Shark Industries | | | | |
| Address | 6700 Bleck Drive, Rockford, MN 55373 | | | | |
| Telephone number | 800-537-4275 | | | | |
| Fax number | 763-565-1900 | | | | |
| E-mail | info@sharkind.com | | | | |
| Emergency phone number | 800-537-4275 | | | | |
| 2 HAZARDS IDENTIFICATION | | | | | |
| Hazard classification of the product | The abrasive product is an article and cannot hazard classification according to Reg. EC 1272/2008 is not applicable. Risks about its use should be assessed by the safety management system of any downstream user | | | | |
| Labelling | This abrasive product is an article: labelling is not applicable according to Reg. 1272/2008/EC | | | | |
| 3 COMPOSITION / INFORMATION ON INGREDIENTS | | | | | |
| Abrasive material, binded in a thermosetting resin matrix | | | | | |
| Abrasive material in polymeric matrix | | | | | |
| Matrix | Substance | Hazard pictogram | Hazard classification | CAS N. | EC N. |
| | | Reg. EC 1272/2008 | Reg. EC 1272/2008 | | |
| Abrasive powders | Aluminium oxide Al ₂ O ₃ | --- | --- | 1344-28-1 | 215-691-6 |
| | | TSCA 8(b) inventory | Listed | | |
| | | RTECS | BD1200000 | | |
| | Iron oxide Fe ₂ O ₃ | --- | --- | 1309-37-1 | 215-168-2 |
| | | TSCA 8(b) inventory | Listed | | |
| | | RTECS | NO7400000 | | |
| | Pyrite FeS ₂ | --- | --- | 1309-36-0 | 215-167-7 |
| | | TSCA 8(b) inventory | Listed | | |
| | | RTECS | N.A. | | |
| | Kalfren (Aluminium potassium fluoride) | | Eye irrit 2 – H319 Acute tox 4 – H332 Lact – H362 STOT RE 1 – H372 Aquatic chronic 3 – H412 | 60304-36-1 | 262-153-2 |
| | | TSCA 8(b) inventory | Listed | | |
| | | RTECS | N.A. | | |
| | Barium carbonate BaCO ₃ | | Acute tox 2 – H302 | 513-77-9 | 208-163-3 |
| | | TSCA 8(b) inventory | Listed | | |
| | | RTECS | CO8600000 | | |



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Structural support

| Matrix | Structural component | Hazard pictogram | Hazard classification |
|--------|----------------------------|------------------|-----------------------|
| Binder | Inert thermosetted polymer | --- | --- |

4 FIRST AID MEASURES

| | |
|----------------------|---|
| Preamble | Following statements must be taken as base-rules concerning abrasive materials and has to be completed according to safety data sheets of processed materials and process cooling liquid used |
| General informations | In case of eyes and skin contact, give priority to eyes first aid measures |
| Eye contact | Rinse opened eye for several minutes under running water and seek immediate medical advice, showing this MSDS |
| Skin contact | Remove contaminated clothes. Immediately wash with water and soap and rinse thoroughly. |
| Inhalation | Supply fresh air; consult doctor in case of complaints |
| Swallowing | No relevant effects in case of swallowing. Drink water and seek immediate medical advice, showing this MSDS |

5 FIRE FIGHTING MEASURES

| | |
|-------------------------------|--|
| Suitable extinguishing agents | CO ₂ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam |
| Protective equipment | Ordinary protective equipment in case of fire-fighting |
| Specific risks | None |

6 ACCIDENTAL RELEASE MEASURES

| | |
|---------------------------------------|-------------------------------|
| Person-related safety precautions | Not applicable to the article |
| Measures for environmental protection | |
| Measures for cleaning/collecting | |

7 HANDLING AND STORAGE

| | |
|----------|--|
| Handling | Avoid direct contact using recommended handling safety equipment (see § 8). According to normal use conditions, product does not contain volatile components. |
| Storage | Keep in cool, dry, ventilated storage in closed original containers. Do not drinking or eating near the storage place. |





8 EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|--|--|
| Risk scenario | Any risk concerning the use in mechanical industry Experimental toxicological data are not available concerning specific exposure scenarios. Hazard classification of this product was done according to Reg. EC 1272/2008 and other available informations |
| Information about design of technical facilities | Ensure good ventilation/exhaustion at the workplace. Safety washing water must be available for skin and eyes |



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| Exposure limit values | Substance | OSHA 2014 TWA [mg/m ³] | | ACGIH 2014 TWA [mg/m ³] | |
|------------------------|---|--|---------------------|--|---------------------|
| | | Total | Respirable fraction | Inhalable fraction | Respirable fraction |
| | <i>Alluminium oxide [Al₂O₃]</i> | 15 | 5 | --- | --- |
| | <i>Aluminium potassium fluoride</i> | 2,5 | --- | 2,5 | --- |
| | <i>Barium carbonate</i> | --- | --- | 0,5 | --- |
| | <i>Particles not otherwise classified</i> | 10 mg/m ³ inhalable fraction (TWA 8 h, ACGIH 2014) 3 mg/m ³ respirable fraction (TWA 8 h, ACGIH 2014) | | | |
| Respiratory protection | In case of brief exposure use respiratory filter device  | | | | |
| Eyes protection | Safety goggles or face shield  | | | | |
| Hands protection | Protective gloves for chemical products, according to standard EN374; materials for long contact time  | | | | |
| Skin protection | Use protective clothes and protective shoes  | | | | |
| Other informations | Abrasive materials used are inert and cannot cause risks when correctly stored and managed. During use on machineries, they request safety precautions for workers. The most part of powder particles comes from the processed material and eventually from the cooling liquid. Consequently attention and safety precautionary measures on vapours and dusts environmental removing must be applied. Follow the local Safety Management standards and instructions. | | | | |

9 PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------|-------------------------|
| Appearance | Solid abrasive material |
| Colour | Black |
| Odour | Odourless |
| PH | Not applicable |
| Ionic charge | Not applicable |
| Boiling point | Not applicable |
| Melting point | Not applicable |
| Flash point | Not applicable |



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| | |
|---------------------------------------|---|
| Vapour pressure | Not applicable |
| Water solubility at 20°C | Not soluble |
| Volatile organic chemicals (VOC) | No volatile chemicals (VOC) are present at detectable level |
| Partition coefficient n-octanol/water | No available data on this article |

10 STABILITY AND REACTIVITY

| | |
|----------------------------------|---|
| Stability | Stable in normal handling and storage conditions |
| Conditions/materials to avoid | Keep away from strong oxidizers and electrostatic charges |
| Dangerous decomposition products | After overheating and drying, thermal decomposition at °T > 250°C can produce dangerous vapours as carbon dioxide, carbon oxide and nitrogen oxides |

11 TOXICOLOGICAL INFORMATIONS

Material is inert on polymeric matrix. Data are referring to used abrasive components

| | |
|------------------------|--|
| Carcinogenic effects: | No carcinogenic effects are known and applicable |
| Mutagenic effects: | No mutagenic effects are known and applicable |
| Acute toxicity | Aluminium oxide: > 5000 mg/Kg - DL50, oral rat (IUCLID Data Sheet, European Chemical Bureau) Barium carbonate: 418 mg/Kg - DL50, oral rat (Sigma Aldrich) |
| Chronic toxicity | No chronic effects are known and applicable |
| Skin | Mechanical irritating effects |
| Inhalation | Irritating (superior respiratory system). Powders produced during use can cause respiratory irritating effects |
| Eyes | Mechanical irritating effects: symptoms can be irritating, reddening, damages of corneal surface, tearing. Powders produced during use can cause eyes irritating effects |
| Other negative effects | Other risks can be caused depending on the abrasion process material used |

12 ECOLOGICAL INFORMATIONS

| | |
|------------------------------|--|
| Ecological toxicity | Aluminum oxide > 100 mg/l – 96 ore, salmo trutta (acute toxicity) > 100 mg/l – 48 ore, daphnia magna (acute toxicity) Barium carbonate 6950 mg/l – 96 ore, gambusia affinis (acute toxicity) |
| Mobility | No available and applicable data about this abrasive article |
| Biopersistence | No available and applicable data about this abrasive article |
| Biodegradability | No available and applicable data about this abrasive article |
| Potential of bioaccumulation | No available and applicable data about this abrasive article |

13 DISPOSAL CONSIDERATIONS

| | |
|-------------------------|---|
| Disposal recommendation | Recovery if possible. Waste and uncleaned packages must be disposed of in accordance with state and local environmental regulations. |
|-------------------------|---|



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14 TRANSPORT INFORMATION

| | |
|---|---|
| | ONU number: not applicable |
| Transport classification and regulation | ADR/RID: not regulated (road and railway) ICAO/IATA: not regulated (air transport) IMDG/IMO: nor regulated (maritime transport) |

15 REGULATORY INFORMATION

| | |
|---|---|
| GHS Hazard labeling symbols | None |
| UE Hazard labeling symbols | None |
| U.S.A. OSHA labeling symbols | None |
| CANADA WHIMIS labeling symbols | None |
| GHS hazard statements | None |
| UE hazard statements | None |
| U.S.A. OSHA hazard statements | None |
| CANADA WHIMIS hazard statements | None |
| Precautionary statements (Reg. EC 1272/2008) | P 260 Do not breathe dust |
| | P 280 Wear protective gloves/eye/face protection |

Other regulation references

All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act Chemical Substance Inventory (see section 3)
Reg. EC 1272/2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives EC 67/548 and EC 1999/45, and amending Reg. EC 1907/2006 (Reach)
Product does not contains detectable amounts of:
substances classified carcinogenic cat. 1 or cat. 2
substances included in the ECHA Candidate list of SVHC
substances included in the Reach annex 14 (authorization)
No restriction are applicable according to UE Reach Regulation (Annex 17 and following amendments)

16 OTHER INFORMATIONS

| | |
|--|--|
| GHS Hazard statements (full text) (§ 3) | H319 – causes serious eye irritation |
| | H332 - Harmful if inhaled |
| | H362 - May cause harm to breast-fed children |
| | H372 - Causes damage to organs |
| | H412 - Harmful to aquatic life with long lasting effects |
| Further informations and references | Informations are updated to: GHS "Globally Harmonized System of Classification and Labelling of Chemicals, United Nations, 1 st Revised Edition 2005" ANSI Z400.1/Z129.1-2010 Hazard Evaluation and Safety Data Sheet and Precautionary Labeling Preparation Hazard Communication Standard 29 CFR 1910.1200 Reg. EC 1272/2008 and following amendments NIOSH: Registry of toxic effects of chemical substances ACGIH: American Conference of Governmental Industrial Hygienists, 2014 When applicable, according to Reg. 1907/2006/EC - chapter II, all substances used in this preparation where registered Product is according to Reg. 1907/2006/EC – title II requirements (registration of substances) Dir. EC 42/2006 (machineries directive): not applicable. Dir. EC 65/2011 (Rohs 2): not applicable |



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ABBREVIATIONS AND ACRONYMS

| | |
|------------------|---|
| LD50 | Average letal dose |
| TLV - TWA | Threshold Limit Value - Time Weighted Average |
| STEL | Short Term Exposure Limit |
| OES | Occupational Exposure Standard |
| REACH | Registration, Evaluation, Autorisation of Chemicals |
| ECHA | European Chemical Agency |
| RTECS | Registry of Toxic Effects of Chemical Substances (U.S.A.) |
| OSHA | Occupational Safety and Health Administration |
| NIOSH | National Institute for Occupational Safety and Health |
| ACGIH | American Conference of Governmental Industrial Hygienists |
| TSCA | Toxic Substances Control Act |
| WHMIS | Workplace Hazardous Materials Information System (Canada) |
| OSHA | Occupational Safety and Health Administration |
| n.a. | Not applicable/Not available |

DISCLAIMER

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