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

Product name: DARCO® KB-WJ
Product code: KBWJ
Synonyms: Activated carbon

Recommended use: Liquid and vapor applications (purification, decolorization, separation, catalyst and deodorization)

Restrictions on use: No information available.

Supplier:

Cabot Corporation
157 Concord Road
Billerica, MA 01821
UNITED STATES
Tel: 1-978-663-3455
Fax: 1-978-670-6955

Emergency Telephone Number: US: CHEMTREC 1-800-424-9300 or 1-703-527-3887
International CHEMTREC: +1 703-741-5970 or +1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status: This chemical is considered hazardous by the United States 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Self-Heating Substances and Mixtures

Combustible dust

Category 2
Signal Word: WARNING

Hazard statements:
Self-heating in large quantities; may catch fire
May form combustible dust concentrations in air
3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Activated carbon.
This product, which is manufactured from a naturally occurring raw material(s), contains <1% total crystalline silica (quartz, CASRN 14808-60-7).

### 4. FIRST AID MEASURES

**FIRST AID MEASURES**

**Skin Contact**
Wash thoroughly with soap and water. Seek medical attention if symptoms develop.

**Eye contact**
Flush eyes immediately with large amounts of water for 15 minutes. Seek medical attention if symptoms develop.

**Inhalation**
If cough, shortness of breath or other breathing problems occur, move to fresh air. Seek medical attention if symptoms persist. If necessary, restore normal breathing through standard first aid measures.

**Ingestion**
Do not induce vomiting. If conscious, give several glasses of water. Never give anything by mouth to an unconscious person.

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

**Symptoms:**
The most important known symptoms and effects are described in Section 2 and/or in Section 11.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians:**
Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

*Information given is based on data obtained from this substance or from similar substances.*

**Suitable Extinguishing Media:**
Use foam, carbon dioxide (CO2), dry chemical or water spray. A fog is recommended if water is used.

**Unsuitable Extinguishing Media:**
DO NOT USE a solid water stream as it may scatter and spread fire. DO NOT USE high pressure media which could cause formation of a potentially explosible dust-air mixture. In the event of a fire, spreading large amounts of activated carbon is not recommended due to the risk of creating uncontrolled dust emissions.

**Specific hazards arising from the chemical:**
Burning produces irritant fumes. If transferring product under pressure, avoid generation of dust if an ignition source is present.

Activated carbons have high surface area which may cause self-heating during oxidation. An adequate air gap between packages of activated carbon is recommended to reduce risk of propagation of the event. Activated carbon is difficult to ignite and tends to burn slowly (smolder) without producing smoke or flame. This product is a self-heating substance (UN Manual of Tests and Criterion, Second Revised Edition, Test N.3.).

**Hazardous combustion products:**
Materials allowed to smolder for long periods in enclosed spaces may produce amounts of carbon monoxide which reach the lower explosive limit (carbon monoxide LEL = 12.5% in air). Used activated carbon may produce additional combustion products which are based on the substance(s) adsorbed. Carbon monoxide (CO). Carbon dioxide (CO2).
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid dust formation. Ensure adequate ventilation. Use personal protective equipment. See also Section 8.

Environmental Precautions: No special environmental precautions required. Local authorities should be advised if spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Avoid dry sweeping and use water spraying or vacuum cleaning systems to prevent airborne dust generation. If the spilled material contains dust or has the potential to create dust, use explosion-proof vacuums and/or cleaning systems suitable for combustible dusts. Use of a vacuum with high efficiency particulate air (HEPA) filtration is recommended. Do not create a dust cloud by using a brush or compressed air. Dust may form explosive mixture in air. Activated carbons have high surface area which may cause self-heating during oxidation. Take precautionary measures against static discharges. All metal parts of the mixing and processing equipment must be earthed/grounded. Ensure all equipment is electrically earthed/grounded before beginning transfer operations. Fine dust is capable of penetrating electrical equipment and may cause electrical shorts. If hot work (welding, torch cutting, etc.) is required the immediate work area must be cleared of product and dust.

7. HANDLING AND STORAGE

Information given is based on data obtained from this substance or from similar substances.

Precautions for safe handling

Advice on safe handling: Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Provide appropriate local exhaust ventilation at machinery and at places where dust can be generated. Do not create a dust cloud by using a brush or compressed air. Dust may form explosive mixture in air.

Activated carbons have high surface area which may cause self-heating during oxidation. Take precautionary measures against static discharges. All metal parts of the mixing and processing equipment must be earthed/grounded. Ensure all equipment is electrically earthed/grounded before beginning transfer operations. Fine dust is capable of penetrating electrical equipment and may cause electrical shorts. If hot work (welding, torch cutting, etc.) is required the immediate work area must be cleared of product and dust.

Conditions for safe storage, including any incompatibilities
Storage Conditions: Keep in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Do not store together with strong oxidizing agents. Do not store together with volatile chemicals as they may be adsorbed onto product. Keep in properly labeled containers. Activated carbon is difficult to ignite and tends to burn slowly (smolder) without producing smoke or flame. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosible mixture if they are released in the atmosphere in sufficient concentrations. This product is a self-heating substance (UN Manual of Tests and Criterion, Second Revised Edition, Test N.3.). Storage at high ambient temperature may exacerbate the self-heating tendency. Prior to entering a confined space that contains or previously contained activated carbon, the space should be evaluated for oxygen and carbon monoxide concentrations, and any other hazards, by a qualified person.

Incompatible materials: Strong oxidizing agents. Strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure guidelines: 

Exposure limits for components or similar components are stated below.
### Dust, or Particulates Not Otherwise Specified:

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<thead>
<tr>
<th>Country</th>
<th>Standard</th>
<th>Description</th>
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<tr>
<td>Austria MAK</td>
<td>10 mg/m³, STEL 2x30 min, Inhalable dust</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>5 mg/m³, TWA, Inhalable dust</td>
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<tr>
<td></td>
<td></td>
<td>3 mg/m³, TWA, Respirable dust</td>
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<tr>
<td></td>
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</tr>
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</tr>
<tr>
<td></td>
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</tr>
<tr>
<td></td>
<td>4 mg/m³, TWA, Respirable</td>
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<td>United Kingdom - WEL</td>
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</table>
Silica, Crystalline (Quartz) CAS RN 14808-60-7:

- Austria MAK: 0.15 mg/m³, TWA (Respirable)
- Belgium: 0.1 mg/m³, TWA (Alveolar fraction)
- Denmark: 0.1 mg/m³, TWA (Respirable)
- Finland: 0.05 mg/m³, TWA (Respirable)
- France: 0.1 mg/m³, VME (Alveolar fraction)
- Ireland: 0.1 mg/m³, TWA (Respirable)
- Italy: 0.025 mg/m³, TWA (Respirable)
- Japan: (3 mg/m³)/(1.19%SiO₂ + 1) (Respirable)
- Switzerland: 0.15 mg/m³, TWA (Respirable)
- UK WEL: 0.1 mg/m³, TWA (Respirable)
- US OSHA PEL: (10 mg/m³)/(%SiO₂ + 2) (Respirable)
  (30 mg/m³)/(%SiO₂ + 2) (Total)
- US ACGIH TLV: 0.025mg/m³ (Respirable)

Engineering Controls: Ensure adequate ventilation to maintain exposures below occupational limits. Provide appropriate local exhaust ventilation at machinery and at places where dust can be generated.

Personal protective equipment [PPE]

Respiratory Protection: Approved respirator may be necessary if local exhaust ventilation is not adequate.

Hand Protection: Wear suitable gloves.

Eye/face Protection: Wear eye/face protection. Wear safety glasses with side shields (or goggles).

Skin and Body Protection: Wear suitable protective clothing. Wash clothing daily. Work clothing should not be allowed out of the workplace.

Other: Handle in accordance with good industrial hygiene and safety practice. Emergency eyewash and safety shower should be located nearby.

Environmental exposure controls: No special environmental precautions required. Local authorities should be advised if spillages cannot be contained.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information given is based on data obtained from this substance or from similar substances.
### 10. STABILITY AND REACTIVITY

**Reactivity:**
May react exothermically upon contact with strong oxidizers.

**Odor:**
Generally odorless. May produce slight sulfur smell when wet.

**Odor threshold:**
Not Applicable

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**Physical State:** Solid

**Appearance:** Powder

**Color:** Black

**Property** | **Values** | **Remarks • Method**
--- | --- | ---
**pH:** | Not Applicable |  
**Melting point/freezing point:** | Not Applicable |  
**Boiling point / boiling range:** | Not Applicable |  
**Evaporation Rate:** | Not Applicable |  
**Vapor pressure:** | Not Applicable |  
**Vapor Density:** | Not Applicable |  
**Density:** | No information available |  
**Bulk Density:** | 250-350 kg/m³ |  
**Specific Gravity at 20°C:** | No information available |  
**Water solubility:** | Insoluble |  
**Solubility(ies):** | No information available |  
**Partition Coefficient (n-octanol/water):** | No information available |  
**Decomposition temperature:** | No information available |  
**Viscosity:** | No information available |  
**Kinematic viscosity:** | No information available |  
**Dynamic viscosity:** | No information available |  
**Oxidizing Properties:** | Not Applicable |  
**Softening point:** | No information available |  
**VOC content (%):** | Not Applicable |  
**% Volatile (by Volume):** | No information available |  
**% Volatile (by Weight):** | No information available |  
**Surface Tension:** | No information available |  
**Explosive properties:** | Dust may form explosible mixture in air |  
**Flash Point:** | Not Applicable |  
**Flammability (solid, gas):** | No information available |  
**Flammability Limit in Air:** | No information available |  
**Explosion Limits in Air - Upper (g/m³):** | 50 g/m³ | EN 14034-3
**Explosion Limits in Air - Lower (g/m³):** | No information available |  
**Autoignition Temperature:** | No information available |  
**Minimum Ignition Temperature:** | 630-640 °C | BS EN 50281-2:1999 or IEC 61241-2-1
**Minimum Ignition Energy:** | > 1 J | BS EN 13821 or IEC 61241-2-3
**Ignition Energy:** | No information available |  
**Maximum Absolute Explosion Pressure:** | 9.3 bar | EN 14034-2
**Maximum Rate of Pressure Rise:** | 539 bar/sec | EN 14034
**Burn Velocity:** | No information available |  
**Kst Value:** | 149 bar meter/second | EN 14034-2
**Dust Explosion Classification:** | ST1 |  

**Dust Explosion Classification:**
ST1
Stability: Stable under recommended handling and storage conditions.

Possibility of hazardous reactions: None under normal processing.

Hazardous polymerization: Hazardous polymerization does not occur.

Conditions to avoid: Keep away from heat and sources of ignition. Avoid dust formation. Activated carbon (especially when wet) can deplete oxygen from air in enclosed spaces, and dangerously low levels of oxygen may result.

Activated carbons have high surface area which may cause self-heating during oxidation.

Incompatible materials: Strong oxidizing agents. Strong acids.

Explosion data: See also Section 9.

Sensitivity to Mechanical Impact: Not sensitive to mechanical impact.

Sensitivity to Static Discharge: Dust may form explosible mixture in air. Avoid dust formation. Do not create a dust cloud by using a brush or compressed air. Take precautionary measures against static discharges. All metal parts of the mixing and processing equipment must be earthed/grounded. Ensure all equipment is electrically earthed/grounded before beginning transfer operations.

Hazardous decomposition products: Materials allowed to smolder for long periods in enclosed spaces may produce amounts of carbon monoxide which reach the lower explosive limit (carbon monoxide LEL = 12.5% in air). Used activated carbon may produce additional combustion products which are based on the substance(s) adsorbed. Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information given is based on data obtained from this substance or from similar substances.

Acute toxicity

Not classified.


Inhalation LC50: LC50/inhalation/1h/rat = >8.5 mg/L (OECD 403)

Dermal LD50: Absorption highly unlikely, no health effects known.

Skin corrosion/irritation: Not classified

Skin irritation test, rabbit (OECD 404): Not irritating

Serious eye damage/eye irritation: Not classified. Eye irritation test, rabbit (OECD 405): Not irritating.

Mutagenicity: Not classified.
- Gene mutation in bacteria (Bacterial Reverse Mutation Assay/Ames) (OECD 471): not mutagenic.
- In vitro Mammalian Chromosome Aberration Test (OECD 473): not clastogenic.
- In vitro Mammalian Cell Gene Mutation Test (OECD 476): non-mutagenic.

Carcinogenicity: Not classified.
Contains a component (crystalline silica) that is listed by IARC as group 1, by ACGIH as group A2, and by NTP as a known human carcinogen.

Reproductive Toxicity: Not classified. Repeated dose inhalation toxicity test showed no reproductive target organ effects, and a toxicokinetic study showed no product migration to reproductive organs.

STOT - single exposure: Not classified.

STOT - repeated exposure: Not classified. Repeated dose toxicity study, inhalation (rat) 90 days (OECD 413): NOAEC 7.29 mg/m$^3$ (respirable). This test was conducted on activated carbon containing negligible crystalline silica; therefore activated carbon itself is not classified for STOT-RE. Although respirable crystalline silica is classified as STOT-RE1, this product contains <1% respirable crystalline silica, therefore it is not classified for STOT-RE.

Aspiration Hazard: Based on industrial experience and available data, no aspiration hazard is expected.

12. ECOLOGICAL INFORMATION

Information given is based on data obtained from this substance or from similar substances.

Aquatic Toxicity: Non toxic. The substance is highly insoluble in water and the substance is unlikely to cross biological membranes. No adverse ecological effects are known.

Terrestrial Toxicity: Earthworm reproduction study (OECD 222), NOAEC for body weight reduction 1000 mg/kg soil; NOAEC for reproduction 3200 mg/kg soil. Non toxic in soil.

ENVIRONMENTAL FATE
Persistence and degradability: Not expected to degrade
Bioaccumulation: Not expected due to physicochemical properties of the substance.
Mobility: Not expected to migrate. Insoluble.
Distribution to Environmental Compartments: Insoluble. Expected to remain on soil surface.
Other adverse effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disclaimer: Information in this section pertains to the product as shipped in its intended composition as described in Section 3 of this MSDS. Contamination or processing may change waste characteristics and requirements. Regulations may also apply to empty containers, liners or rinsate. State/provincial and local regulations may be different from federal regulations.
RCRA: Unused product is not a hazardous waste under U.S. RCRA, 40 CFR 261. Spent (used) product may be hazardous based on the substance adsorbed.

Disposal of wastes Activated carbon, in its original state, is not a hazardous material or hazardous waste. Follow applicable regulations for waste disposal.

Spent (used) activated carbon may be classified as a hazardous waste depending upon its use, the substance(s) adsorbed, and how it is ultimately managed. Follow applicable regulations for disposal.

Recycling (reactivation) may be a viable alternative to disposal. Dust formation from residues in packaging should be avoided and suitable worker protection assured. Store used packaging in enclosed receptacles.

14. TRANSPORT INFORMATION

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ICAO (air)

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15. REGULATORY INFORMATION

**Hazard Classification**

Mexico - NOM-018-STPS-2000: Not hazardous
Canada - WHMIS Classification (CPR, SOR/88-66): Not controlled
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the M/SDS contains all the information required by the Controlled Products Regulations.

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<td>1</td>
</tr>
<tr>
<td>14808-60-7</td>
<td></td>
</tr>
</tbody>
</table>

*International Inventories*

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
Complies

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
Complies

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
Complies

**ENCS** - Japan Existing and New Chemical Substances
Complies

**IECSC** - China Inventory of Existing Chemical Substances
Complies

**KECL** - Korean Existing and Evaluated Chemical Substances
Complies

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances
Complies

**AICS** - Australian Inventory of Chemical Substances
Complies

**NZIoC** - New Zealand Inventory of Chemicals
Complies

**TCSI** - Taiwan Chemical Substance Inventory
Complies

*US Federal Regulations*

**TSCA Section 12(b) Export Regulations:**
This product does not contain any components that are subject to TSCA 12(b) Export Notification

**SARA 311/312 Hazard Categories**

- Acute Health Hazard: NO
- Chronic Health Hazard: NO
- Fire hazard: YES
- Sudden release of pressure hazard: NO
- Reactive Hazard: NO

**Clean Air Act Amendments of 1990 (CAA, Section 112, 40 CFR 82):**
This product does not contain any components listed as a Hazardous Air Pollutant, Flammable Substance, Toxic Substance, or Class 1 or 2 Ozone Depletor

**CWA (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.

**US State Regulations**

**California Proposition 65**
This product contains the following Proposition 65 chemicals.
### Chemical name | California Proposition 65
---|---
Quartz (respirable) 14808-60-7 (<10) | Carcinogen

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

<table>
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<tr>
<th>Chemical name</th>
<th>New Jersey</th>
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<th>Pennsylvania</th>
<th>Louisiana</th>
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<td>X</td>
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</tr>
</tbody>
</table>

### 16. OTHER INFORMATION

**Disclaimer:**
The information set forth is based on information that Cabot Corporation believes to be accurate. No warranty, expressed or implied, is intended. The information is provided solely for your information and consideration and Cabot assumes no legal responsibility for use or reliance thereon. In the event of a discrepancy between the information on the non-English document and its English counterpart, the English version shall supersede.

**Prepared by:** Cabot Corporation - Safety, Health and Environmental Affairs  
**Revision date:** 26-May-2015

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**End of Safety Data Sheet**