

SAFETY DATASHEET

Section 1

SDS DATE:	8 March 2019
MANUFACTURER:	Carbon Activated Corp Australia 74-80 Fitzgerald Rd Laverton North, VIC 3026
EMERGENCIES:	+61 1300 742 223
PRODUCT IDENTIFICATION:	COL-IK60 (4mm)
CHEMICAL NAME:	Activated Carbon
CHEMICAL FORMULA:	C
SYNONYMS:	Coal base Potassium Hydroxide impregnated pellet

Section 2

INGREDIENTS

Chemical Name (CAS #)	%	PEL (OSHA)	TLV (ACGIH)	OTHER
Carbon* (7440-44-0)	≤ 93	N/A	N/A	N/A
Potassium Hydroxide (1310-58-3)	≤ 7	2 mg/m ³	2 mg/m ³	-

*ACGIH (TWA) for respirable dust is 2.5 mg/m³

There are no established PEL, TWA or TLV values for this material. Caution should be taken for respirable dust. The product has no known carcinogenic properties.

Section 3

PHYSICAL DATA:

Specific Gravity, (H ₂ O = 1):	3.5
Solubility in water:	Insoluble
Apparent Density:	0.50 - 0.60 g/cc
Vapor Pressure:	N/A
Flammability	N/A
Melting Point:	N/A
Boiling Point:	N/A
Freezing Point:	N/A
Appearance and Odor:	Pellets

Section 4

FIRE & EXPLOSION DATA:

Extinguishing media:	Alcohol foam, CO ₂ , dry chemical, water.
Special Firefighting procedures:	Exercise caution when responding to any chemical fire. Respiratory Protection is essential
Unusual fire & explosion hazards:	Contact of activated carbon with strong oxidizers may cause rapid combustion. Contact of Phosphoric acid with certain metals may liberate hydrogen which is flammable and readily forms explosive mixtures in air.
Decomposition Products:	CO may be formed in fire.
Thermal Decomposition:	Sulfur Oxides (SO _x)

Section 5

HEALTH HAZARD DATA:

Route (s) of Entry:	
Ingestion:	Carbon is non-toxic through ingestion
Inhalation:	The physical nature of carbon may irritate the respiratory system
Skin:	Carbon is non-toxic through skin absorption
Eye Irritation:	The physical nature of carbon may cause, eye irritation.

Section 6

EMERGENCY & FIRST AID PROCEDURES:

In case of inhalation remove to fresh air. Administer first aid as appropriate. Seek medical attention.

In case of ingestion do not induce vomiting. Dilute by giving water or milk. Seek medical attention.

Skin Contact: Wash thoroughly with water. If irritation persists seek medical attention.

In case of eye contact flush with lukewarm water for at least 15 minutes. Seek medical attention.

OTHER:

The effects of chronic and sub-chronic exposure have not been determined. Safe handling on a long-term basis should emphasize protection against respective or long-term exposure to carbon dust inhalation and avoidance of contact to any liquids that may leach off the impregnated carbon.

Section 7

FIRE FIGHTING MEASURES

Flashpoint:	Not Applicable.
Non-flammable:	16CFR1500.44.
Not Self Heating:	UN Manual of Tests and Criteria, Test N.3.
Flammability Limits in Air:	LFL and UFL Not Applicable.

GENERAL HAZARD:

Activated carbon is difficult to ignite and tends to burn slowly (smoulder) without producing smoke or flame. Toxic gases will form upon combustion.

FIRE FIGHTING INSTRUCTIONS:

If possible to do safely, move smouldering activated carbon to a non-hazardous area, preferably out of doors. Extinguish fire using water fog, fine water spray, carbon dioxide or foam. Avoid stirring up dust clouds.

FIRE FIGHTING EQUIPMENT:

Fire fighting personnel should wear full protective equipment, including self-contained breathing apparatus (SCBA) for all inside fires and large outdoor fires.

HAZARDOUS COMBUSTION PRODUCTS:

Combustion products may include smoke and oxides of carbon (for example, carbon monoxide). Materials allowed to smoulder 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). Under certain conditions, any airborne dust may be an explosion hazard. Used activated carbon may produce additional combustion products.

Section 8

REACTIVITY DATA:

Incompatibility.	Avoid strong oxidizers and liquid acids.
Stable:	Yes
Conditions to avoid:	None
Hazardous Decomposition Products:	Oxides of Carbon
Hazardous Polymerization:	Will not occur

Section 9

SPILL & LEAK PROCEDURES:

Reportable Quantities:	No EPA requirements
Steps to be taken in the event if a spill:	Sweep up, neutralize and discard in protected refuse container. Do not release to sewer or waterway.
Waste Disposal Method:	Unused product may have a lot pH. Used product may contain hazardous chemicals or hazardous properties that may have to be examined to determine proper disposal method. Dispose of in accordance with local, state, and federal regulations
Disposal Considerations:	Activated carbon, in its original state, is not a hazardous material or hazardous waste. Follow applicable governmental regulations for waste disposal. Used activated carbon may become classified as a hazardous waste depending upon the application. Follow applicable regulations for disposal. Recycling (reactivation) may be a viable alternative to disposal. Contact Carbon Activated Corp. for information.

Section 10

SPECIAL PROTECTION INFORMATION:

Respiratory Protection:	Use NIOSH/MSHA approved respiratory protection equipment appropriate to the material and/or its concentration where airborne exposure is likely. If exposures cannot be kept to a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer.
Ventilation/Local Exhaust:	Essential in confined areas.
Eye Protection:	Safety glasses or goggles with side shields are recommended for any type of handling. Where eye contact or dusty conditions may be likely, dust tight goggles are recommended. Have eye flushing equipment available.
Engineering Controls:	Use local exhaust ventilation to control emissions near the source. Ventilation systems should be sized and configured to prevent exceeding of recommended or regulated exposure limits.
Skin Protection:	Avoid contact with the skin. Wear appropriate dust resistant clothing. Wash contaminated clothing and clean protective equipment before reuse. Wash skin thoroughly after handling. Protective Gloves Recommended
Hygienic Practices:	Wash thoroughly after handling.
Airborne Exposure Guidelines:	
Recommended Exposure Limits	Activated Carbon
8-hr TWA	
Total Dust	10 mg/m ³ *
Respirable Fraction	3 mg/m ³ *

*OSHA and ACGIH have not established specific exposure limits for this material. The recommended exposure limits for these activated carbon products are base on the Threshold Limit Values adopted by ACGIH for Particulates (insoluble) Not Otherwise Classified. The OSHA PEL for Nuisance Dust is 15 mg/m³ (5 mg/m³ respirable fraction).

Section 11

STORAGE AND HANDLING INFORMATION:

Storage Temperature:	Ambient
Storage Pressure:	Atmospheric
Handling:	Follow good handling and housekeeping practices to minimize spills, generation of airborne dusts, and accumulation of dusts on exposed surfaces. Use with adequate exhaust ventilation to draw dust away from workers' breathing zones. Prevent or minimize exposures to dusts by using appropriate personal protection equipment. Wash exposed skin areas thoroughly with soap and water after handling.

Storage: Dry airtight storage recommended. Maintain good housekeeping. Store away from strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc.

Section 12

ECOLOGICAL AND TOXICOLOGICAL INFORMATION

This material, in its original state, is not harmful to the environment. Used activated carbon may exhibit characteristics of the adsorbed material.

This material is non-toxic in its original state. Used activated carbon may exhibit characteristics of the adsorbed material.

Section 13

FEDERAL REGULATIONS:

OSHA Hazard Communication:	See "Particulates not otherwise regulated," in Table Z-1, Standard, 29CFR1910.1200: of 29CFR1910.1000, "Limits For Air Contaminates".
CERCLA/SUPERFUND, 40CFR117, 302:	Notification of spills of this material is not required.
SARA/SUPERFUND:	Amendments and Reauthorization Act of 1986 (Title III), Sections 302, and 313:. SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40CFR355): This product is not listed as an extremely hazardous substance. SECTION 313 - LIST OF TOXIC CHEMICALS: This product is not listed.
Toxic Substances Control Act, 40CFR710:	Activated carbon is on the inventory list.
Resource Conservation and Recovery Act:	This product, in its original state, does not meet the criteria of hazardous waste.

STATE REGULATIONS:

California Occupational Safety and Health: • Not listed.

Massachusetts Substance List: • Not listed.

New Jersey Right-to-Know: • Not listed.

Pennsylvania Right-to-Know: • Not listed.

Section 14

HMIS INDEX:

HMIS Index details are as follows,

HEALTH: 0

FLAMMABILITY: 1

REACTIVITY: 1

PPE: E



Section 15

TRANSPORTATION INFORMATION

DOT (Department of Transportation)

Proper Shipping (Article) Name:	Steam Activated Carbon, Non-Regulated OR Carbon, Activated, Non-Regulated
Shipping Class:	Class 70
Hazard Class:	Not applicable.
UN/NA Number:	Not applicable.
Packing Group:	Not applicable.
Freight Classification:	STCC Code - #2899643 / NMFC #040560
DOT Marking:	N/A
DOT Placard:	N/A
Precautions to be taken in Transportation:	N/A

EMERGENCY ACCIDENT PRECAUTIONS AND PROCEDURES:

Contact: Carbon Activated Corporation Australia

Phone: 1300 742 223

Section 16

SPECIAL PRECAUTIONS:

Precautions to be taken
in handling and storage:

Avoid excessive contact with moisture.
Activated carbon can be safely stored in any normal
storage area, but away from sources of direct heat

Other precautions:

Wet activated carbon depletes oxygen from the air
creating a severe hazard to workers in enclosed or
confined spaces, sampling and work procedures for low
oxygen levels should be taken whenever workers
entering carbon vessels, enclosed or confined spaces.



activatedcarbon.com



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