



SAFETY DATA SHEET

SECTION I – PRODUCT AND SUPPLIER INFORMATION

Supplier: Target Products Ltd,
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PRODUCT 99932599 GRANULAR ACTIVATED CARBON

SDS Identifier: Activated Carbon

Product Use: Water purification

SECTION II - HAZARD IDENTIFICATION

Hazard-determining components of labeling

Classification of the substance or mixture

Eye Corrosion – Category 2

Specific Target Organ Toxicity Repeat Exposure – Category 2

Signal word Warning

Hazard Statements

H319 – Causes serious eye irritation.

H373 – May cause damage to organs through prolonged or repeated exposure.

Pictograms



Precautionary statements

P264 – Wash hands thoroughly after handling.

P280 – Wear eye protection and face protection.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 – If eye irritation persists: Get medical advice/attention.

P260 – Do not breathe dust.

Immediately seek medical advice or attention if symptoms are significant or persist.

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

Dispose of contents/containers in accordance with all regulations.

Additional

HNOC – Hazards not otherwise classified: Not applicable

Unknown Acute Toxicity: None

SECTION III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components

Activated Carbon

CAS No.

7440-44-0

% by Weight

100%

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SECTION IV – FIRST AID MEASURES

Inhalation	Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek immediate medical attention.
Skin Contact / Absorption	Remove contaminated clothing. Wash affected area with soap and water.
Eye Contact	Contact lenses should never be worn when working with this product. Flush immediately with water for at least 15 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek medical attention.
Ingestion	No known health effects. Seek medical attention if any problems are experienced.
Additional Information	Not Available

SECTION V - FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Small fires: Carbon dioxide dry chemical powder, sand. Large fires: regular foam.
Unsuitable Extinguishing Media	NOTE: Violent steam generation and frothing may occur on direct application of water stream.
Specific Hazards Arising From Chemical	During a fire, toxic gases are generated.
Special Protective Equipment for Fire-Fighters	Wear NIOSH-approved self-contained breathing apparatus and protective clothing.
Further Information	Wet activated carbon removes oxygen from air and can lower the concentration of oxygen inside vessels containing carbon and other confined spaces. During a fire, toxic gases are generated.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions/ Protective Equipment/ Emergency Procedures	Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so. Prevent material from entering sewers. Flush with water to remove any residue.
Environmental Precautions Methods For Cleaning Up	Prevent materials from entering sewers. Vacuum or shovel spilled material and place in closed container for proper disposal.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND STORAGE

Precautions for Safe Handling	Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure. Minimize airborne spreading of dust.
Conditions for Safe Storage	Store in a clean, well-ventilated area away from oxidizers, acids, ignition sources, heat, and combustible materials.
Incompatibilities	Strong oxidizers such as ozone, liquid oxygen, chlorine, potassium permanganate. Strong acids, Acetone, Alkali metals.

SECTION VIII – EXPOSURE CONTROL MEASURES / PERSONAL PROTECTION

Components with limit values that require monitoring at the workplace:			
Hazardous Components	CAS No.	PEL (OSHA) mg/M ³	TLV (ACGIH) mg/M ³
Activated Carbon	7440-44-0	Not established	Not established
Engineering Control(s)	Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.		
Ventilation Requirements			
Other	Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.		
Protective Equipment Eyes/Face	Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.		
Hand Protection	Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.		
Skin and Body Protection	Body suite, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse. No special footwear is required other than what is mandated at place of work.		
Respiratory Protection	Respiratory protection is not normally required. If use creates dust formations, then a NIOSH-approved respirator with a dust cartridge is recommended. Wet activated carbon removes oxygen from air causing a severe hazard to workers inside confined spaces. Before entering such an area, sampling and work procedures for low oxygen levels should be taken (such as wearing a self-contained breathing apparatus).		
Thermal Hazards	Not Available		

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SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

General Information	
Physical State	Particulate solid, pellet or powder
Colour	Black
Odour	Odourless
Odour Threshold	Not Applicable
pH	Not applicable. Activated carbon bearing inorganic and chemically active groups on its surface may alter the pH of liquids to which it is added.
Melting Point/Freezing Point	>3500°C
Initial Boiling Point and Boiling Range	Maximum 4000°C
Flash Point	Not Applicable
Evaporation Rate	Not Applicable
Flammability	Not Applicable
Upper Flammable Limit	Not Applicable
Lower Flammable Limit	Not Applicable
Vapour Pressure (mm Hg, 20°C)	Not Applicable
Vapour Density (Air=1)	Not Applicable
Relative Density	Not Available
Solubility(ies)	Insoluble in water
Partition Coefficient (n-octanol/water)	Not Applicable
Auto-ignition Temperature	~ 300°C [Depends on particle size and physical form.]
Decomposition Temperature	Not Available
Viscosity	Not Applicable
Explosive Properties	Airborne dust may create an explosion hazard.
Specific Gravity (Water=1)	0.25 – 0.60
% Volatiles by Volume	0%
IUPAC Formula	C
Molecular Weight	12.011

SECTION X – STABILITY AND REACTIVITY

Reactivity	Not Available
Chemical Stability	Stable under normal conditions.
Possibility of Hazardous Reactions	Self-heats due to slow oxidation by air. Presence of moisture accelerates self-heating.
Conditions to Avoid	High temperatures, sparks, open flames and all other sources of ignition. Minimize airborne spreading of dust. High concentrations of organics in air will cause temperature rise due to heat of adsorption. At very high concentration levels this may cause a bed fire. High concentrations of Ketones and Aldehydes may cause a bed temperature rise due to adsorption and oxidation.
Incompatible Materials	Strong oxidizers such as ozone, liquid oxygen, chlorine, potassium permanganate. Strong acids, Acetone, Alkali metals.
Hazardous Decomposition Products	Carbon monoxide may be generated in the event of a fire (especially with incomplete combustion in an enclosed space).

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Toxicity

Component	Oral LD50	Dermal LD50	LC50
Activated Carbon	>10,000 mg/kg	Not Available	>64.4mg/L (rat, inhalation)

Chronic Toxicity – Carcinogenicity

Component	IARC
Activated Carbon	Not considered to be carcinogenic as per IARC, NTP, and OSHA.

Skin Corrosion/Irritation	Dust may cause mechanical irritation.
Ingestion	Non-toxic though ingestion
Inhalation	Non-toxic though inhalation
Serious Eye Damage/Irritation	Causes slight to mild irritation of the eyes.
Respiratory or Skin Sensitization	None known.
Germ Cell Mutagenicity	No adverse mutagenic effects are anticipated.

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Reproductive Toxicity	No adverse reproductive effects are anticipated.
STOT-Single Exposure	May cause respiratory tract irritation
STOT-Repeated Exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration Hazard	Not Available
Synergistic Materials	None known

SECTION XII – ECOLOGICAL INFORMATION

Ecotoxicity	Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
	Carbon	Not Available	Not Available	Not Available
Persistence and degradability	No further relevant information available.			
Bioaccumulative potential	No evidence of bioaccumulation or tainting of seafood.			
Mobility in soil	No further relevant information available.			
Other Adverse Effects	No further relevant information available.			

SECTION XIII – DISPOSAL CONSIDERATIONS

Waste Disposal Method

The packaging and material may be land filled; however, material should be covered to minimize generation of airborne dust. This product is not classified as a hazardous waste under the authority of the RCRA (40CFR 261) or CERCLA (40CFR 117&302). Disposal must be made in accordance with local, state and federal regulations including the Canadian Environmental Protection Act..

Contaminated Packaging

Disposal must be made in accordance with local, state and federal regulations including the Canadian Environmental Protection Act.

SECTION XIV – TRANSPORT INFORMATION

	DOT (U.S.)	TDG (Canada)
UN-Number	Not Regulated	Not Regulated
UN proper shipping name	Not Regulated	Not Regulated
Transport Hazard Class(es)	Not Regulated	Not Regulated
Packing Group (if applicable)	Not Regulated	Not Regulated

Environmental hazards:

Not Available

Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code

Not available

Special precautions for user

Do not handle until all safety precautions have been read and understood.

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

SECTION XV – OTHER REGULATORY INFORMATION

NOTE: THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

SECTION XVI – OTHER INFORMATION

Last Updated: March 21, 2022

NOTE: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

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End of SDS