



Activated Carbon

AGent

AGent SDS: Activated Carbon [2026.01]

Version No: 2026.01

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Hazard Alert Code: 1

Issue Date: June 2026

Print Date: (auto-fills on print)

AGENT.GHS.AUS.EN.E

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name	Activated Carbon
Chemical Name	Carbon (activated)
Synonyms	Activated charcoal; active carbon
Proper shipping name	CARBON, ACTIVATED (Not classified as a Dangerous Good as supplied)
Chemical formula	C (activated)
Other means of identification	Activated Carbon [2026.01]

Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Water and air purification; decolourising; solvent recovery; waste treatment; deodorising; gas purification catalyst support.
Uses advised against	Avoid uses generating airborne dust without controls; not for use where combustible-dust ignition risk is uncontrolled.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	AGent Sales & Services Pty Ltd
Address	38 May Holman Drive, Bassendean WA 6054, Australia
Telephone	(+61 8) 6270 4500 / 1300 833 844
Website	agentsales.com.au
Email	admin@agentsales.com.au

Emergency telephone number

Association / Organisation	Hazrad (outside 24-hour emergency response provider)
Emergency telephone numbers	08 9418 4200 (24-hour) — answered by Hazrad on AGent's behalf
Other emergency telephone numbers	Poisons Information Centre 131 126 (Australia) / 0800 764 766 (NZ)

SECTION 2 Hazards identification

Classification of the substance or mixture

HAZARDOUS CHEMICAL (dust). Classified as an eye and respiratory-tract irritant (dust) under the GHS. NOT a Dangerous Good under the ADG Code. A combustible-dust hazard also applies.

Poisons Schedule (SUSMP)	Not Scheduled (SUSMP — none allocated)
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Classification

- Serious Eye Damage/Eye Irritation Category 2A — H319 (dust)
- Specific Target Organ Toxicity (Single Exposure) Category 3 — H335 (respiratory irritation, dust)

Label elements

Hazard pictogram(s)	
Signal word	WARNING

Hazard statement(s)

- H319 — Causes serious eye irritation (dust).
- H335 — May cause respiratory irritation (dust).

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

- P261 — Avoid breathing dust.
- P271 — Use only outdoors or in a well-ventilated area.
- P264 — Wash exposed skin thoroughly after handling.
- P280 — Wear eye protection / face protection and a suitable respirator.

Precautionary statement(s) Response

- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- 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.

Precautionary statement(s) Storage

- P403+P233 — Store in a well-ventilated place. Keep container tightly closed.
- P405 — Store locked up.

Precautionary statement(s) Disposal

- P501 — Dispose of contents/container in accordance with local, state, federal and international regulations.

Other hazards

May ignite if dispersed in air (combustible dust). After a fire may smoulder for a long time. Freshly activated carbon can deplete oxygen in confined / enclosed spaces — treat as a confined-space hazard.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures.

Mixtures

CAS No.	% [weight]	Name	Classification
7440-44-0	100	Carbon (activated)	Not classified

SECTION 4 First aid measures

Description of first aid measures

Eye Contact

If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Skin Contact

Remove contaminated clothing and shoes. Wash affected area with soap and plenty of water. If irritation develops or persists, seek medical attention.

Inhalation

Remove victim from exposure — avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Keep at rest and warm until recovered. Seek medical advice if effects persist.

Ingestion

Rinse mouth thoroughly with water. Give a glass of water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek medical advice if effects persist.

Most important symptoms and effects, both acute and delayed

Dust may cause mechanical irritation of the eyes and respiratory tract (coughing). Skin contact may cause irritation. Ingestion may cause nausea / vomiting.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Contact the Poisons Information Centre (Australia 131 126; New Zealand 0800 764 766) for guidance.

First Aid facilities

Eye wash facilities and a safety shower must be available in any area where this product is handled.

SECTION 5 Firefighting measures

Extinguishing media

Water fog (or fine water spray), alcohol-resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder). Wet thoroughly — smouldering carbon can persist deep in the bulk.

Special hazards arising from the substance or mixture

Fire Incompatibility

Combustible material. Dust may ignite. On burning / decomposing, oxides of carbon may be released.

Advice for firefighters

Fire Fighting

Fire fighters should wear positive-pressure self-contained breathing apparatus (SCBA) and protective clothing.

Fire / Explosion Hazard

Combustible dust. May smoulder for a long time after a fire. Risk of dust explosion in confined dust clouds.

HAZCHEM Code	None allocated
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SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See Section 8 for personal protective equipment requirements.

Wear appropriate PPE. Avoid inhalation of dust. Avoid contact with skin and eyes. Stay upwind; ventilate. Eliminate ignition sources.

Environmental precautions

Prevent product entering drains, waterways, sewers or confined spaces. If contamination occurs, advise local emergency services. See Section 12.

Methods and material for containment and cleaning up

Minor Spills

Dry sweeping is not recommended (dust). Cover with damp inert absorbent (sand or soil) or use an industrial vacuum cleaner. Avoid generating dust. Transfer to a labelled container and dispose of promptly per Section 13.

Major Spills

Eliminate ignition sources. Avoid dust generation — dampen the material. Collect with non-sparking equipment / protected vacuum into labelled containers for disposal per Section 13.

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling

Ensure an eyewash and safety shower are available. Observe good hygiene; wash thoroughly after handling. Take precautions against static discharge by bonding and grounding. Avoid contact with eyes, skin and clothing. Do not inhale dust / fumes.

Other information

Inspect containers for damage or leaks before handling. Be aware of oxygen-depletion risk in enclosed spaces where wetted carbon is stored.

Conditions for safe storage, including any incompatibilities

Suitable container

Store in the original container, tightly closed, in a cool, dry, well-ventilated area. Protect from physical damage. Keep away from heat / ignition sources.

Storage incompatibility

Incompatible with strong oxidising agents, solvents and strong acids. Store away from incompatible materials (see Section 10).

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

Reference: Safe Work Australia, "Workplace Exposure Limits for Airborne Contaminants" (April 2024) by Safe Work Australia.

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
SWA WEL 2024	Inspirable dust (not otherwise specified)	Activated carbon dust	10 mg/m ³ (inhalable dust, n.o.s.)	Not assigned in SWA WEL 2024	Not assigned in SWA WEL 2024	No specific WEL for activated carbon; nuisance / dust-n.o.s. limits applied.
SWA WEL 2024	Respirable dust (not otherwise specified)	Activated carbon dust	3 mg/m ³ (respirable dust, n.o.s.)	Not assigned in SWA WEL 2024	Not assigned in SWA WEL 2024	Dust-n.o.s. limit applied.

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
Activated carbon	Not established (DOE PAC)	Not established (DOE PAC)	Not established (DOE PAC)
Ingredient	Original IDLH	Revised IDLH	
Activated carbon	Not established (NIOSH)	Not established (NIOSH)	

MATERIAL DATA

No whole-mixture occupational exposure data are available; manage on a per-component basis (above).

Exposure controls

Appropriate engineering controls

Apply the hierarchy of controls (WHS Reg 36). Where elimination or substitution is not reasonably practicable: provide local exhaust ventilation at points of vapour / mist generation; use closed transfer systems where possible; ensure general ventilation is adequate to keep airborne concentrations below the applicable WEL. Document the risk assessment supporting the chosen control hierarchy.

Individual protection measures, such as personal protective equipment

Eye and face protection

Safety glasses with side shields (AS/NZS 1336 & 1337) as a minimum. Chemical goggles and a face shield (AS/NZS 1336 & 1337) where splash potential exists.

Skin protection

See Hand protection below.

Hands/feet protection

Wear protective gloves (rubber or PVC), long-sleeved protective clothing and safety footwear per AS/NZS 2161 / AS/NZS 2210. Inspect gloves before use; dispose of contaminated gloves and wash hands. Safety glasses or splash goggles; P1 or P2 particulate respirator where dust risk exists.

Body protection

See Other protection below.

Other protection

Long-sleeved chemical-resistant protective clothing and apron (PVC or equivalent)

Respiratory protection

If a risk assessment indicates an inhalation risk exists, wear a half-face or full-face respirator with appropriate filter (selection per AS/NZS 1715; respirator per AS/NZS 1716). Specific cartridge / canister recommendation to be confirmed during respiratory protection risk assessment per AS/NZS 1715.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Property	Value
Appearance	Powder / granular — black
Physical state	Solid (powder / granular)
Odour	Odourless
Odour threshold	No data available in source SDS
pH (as supplied)	No data available in source SDS
Melting point / freezing point (°C)	No data available in source SDS
Initial boiling point and boiling range (°C)	No data available in source SDS
Flash point (°C)	No data available in source SDS
Evaporation rate	Not applicable — solid
Flammability	Combustible solid; dust may ignite
Upper Explosive Limit (%)	Not applicable (dust — see combustible-dust note)
Lower Explosive Limit (%)	Not applicable (dust — see combustible-dust note)
Vapour pressure (kPa)	Not applicable — solid
Solubility in water	Insoluble
Vapour density (Air = 1)	Not applicable — solid
Relative density (Water = 1)	Bulk density 200 – 700 kg/m ³
Partition coefficient n-octanol/water	Not applicable — insoluble solid
Auto-ignition temperature (°C)	> 350 °C
Decomposition temperature (°C)	No data available in source SDS
Viscosity (cSt)	Not applicable — solid
Molecular weight (g/mol)	12.01 g/mol (carbon)
Taste	Not applicable — do not taste
Explosive properties	Combustible dust — dust cloud may explode
Oxidising properties	None
Surface Tension (dyn/cm or mN/m)	Not applicable — solid
Volatile Component (% vol)	No data available in source SDS
Gas group	Not applicable
pH as a solution (1%)	Not applicable — insoluble
VOC g/L	0 g/L — no VOC

SECTION 10 Stability and reactivity

Reactivity	No hazardous reactivity under normal conditions. See Section 7.
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Chemical stability	Stable under normal conditions of use, storage and temperature.
Possibility of hazardous reactions	Hazardous polymerisation will not occur.
Conditions to avoid	Heat and sources of ignition; dust generation.
Incompatible materials	See Section 7. Strong oxidisers, solvents and strong acids.
Hazardous decomposition products	See Section 5. Oxides of carbon.

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled

Dust may cause mucous membrane and respiratory tract irritation and coughing.

Ingestion

May result in nausea, vomiting and irritation of the gastrointestinal tract.

Skin Contact

May cause mechanical irritation. No skin irritation in rabbit testing.

Eye

Dust may cause physical / mechanical irritation. No eye irritation in rabbit testing.

Chronic

No adverse chronic health effects expected when handled per this SDS. Mutagenicity tests negative; not a sensitiser.

Per-ingredient toxicity

Ingredient	TOXICITY	IRRITATION
Activated carbon	Oral LD50 (rat, female): > 2,000 mg/kg	Skin (rabbit): no irritation; Eye (rabbit): no irritation; not a skin sensitiser (mouse)
Not applicable	Not applicable	Not applicable

Hazard checklist (whole-product classification basis)

Hazard endpoint	Classified	Hazard endpoint	Classified
Acute Toxicity	—	Carcinogenicity	—
Skin Irritation/Corrosion	—	Reproductive Toxicity	—
Serious Eye Damage/Irritation	✓	STOT — Single Exposure	✓
Respiratory or Skin Sensitisation	—	STOT — Repeated Exposure	—
Mutagenicity	—	Aspiration Hazard	—

Legend: ✓ = Data available to make classification; — = Data either not available or does not fill the criteria for classification.

Information on possible routes of exposure

Absorbed by inhalation of dust, ingestion, skin and / or eye contact.

Additional Information

RTECS	Not available
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SECTION 12 Ecological information

Toxicity

Ingredient	Endpoint	Test Duration	Species	Value	Source
Activated carbon	No data available in source SDS	Not Provided	Not Provided	No data available — insoluble inert carbon; low aquatic toxicity expected	AGent SDS (no value)
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Environmental precaution: Prevent entry to drains, waterways and soak-aways. Notify the relevant Environmental Protection Authority if waterway contamination occurs.

Persistence and degradability

Ingredient	Persistence: Water / Soil	Persistence: Air
Activated carbon	Inert insoluble carbon — not subject to biodegradation; physically persistent but chemically inert.	Not applicable — non-volatile solid (dust only).

Bioaccumulative potential

Ingredient	Bioaccumulation
Activated carbon	Not expected to bioaccumulate (insoluble inert solid).

Mobility in soil

Ingredient	Mobility
Activated carbon	Insoluble — low mobility in water and soil; remains as particulate.

Other adverse effects

Avoid contaminating waterways with carbon fines (turbidity / smothering). No significant chemical ecotoxicity expected.

SECTION 13 Disposal considerations**Waste treatment methods****Product / Packaging disposal**

- Recycle wherever possible.
- Ensure waste disposal conforms to all relevant local, state and federal authority waste disposal regulations.
- Do NOT discharge into sewers or waterways.
- Empty containers should be returned via AGent's Closed Loop container return program where applicable.
- Whatever cannot be saved for recovery or recycling should be managed through an approved waste disposal facility.
- Dispose of in accordance with all local, state and federal regulations. Spent carbon may carry adsorbed contaminants — characterise before disposal; it may require handling as hazardous waste depending on use.

SECTION 14 Transport information

Labels Required	Not Applicable — Not a Dangerous Good
Marine Pollutant	No
HAZCHEM Code	None allocated

Land transport (ADG)

UN number	Not Applicable — Not classified as a Dangerous Good
UN proper shipping name	CARBON, ACTIVATED (Not classified as a Dangerous Good as supplied)
Transport hazard class(es)	Not classified as a Dangerous Good by the criteria of the ADG Code for transport by road or rail
Packing group	Not Applicable
Environmental hazard	Not Applicable
Special precautions for user	None allocated — Not a Dangerous Good. AGent's activated carbon is a non-self-heating grade and does not meet the UN 1362 (Class 4.2) self-heating criteria.
ERG / EIP number	Not Applicable — Not a Dangerous Good

Air transport (ICAO-IATA / DGR)

UN number	Not Applicable — Not classified as a Dangerous Good
UN proper shipping name (lowercase)	Carbon, activated (Not classified as a Dangerous Good as supplied)
ICAO/IATA Class	Not classified as a Dangerous Good by the criteria of the IATA Code for transport by air
Packing group	Not Applicable
Environmental hazard	Not Applicable
Special provisions	Not Applicable — Not a Dangerous Good as supplied.
Cargo Only Packing Instructions	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.
Cargo Only Max Qty/Pack	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.
Passenger and Cargo Packing Instructions	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.
Passenger and Cargo Max Qty/Pack	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.

Sea transport (IMDG-Code / GGVSee)

UN number	Not Applicable — Not classified as a Dangerous Good
UN proper shipping name	CARBON, ACTIVATED (Not classified as a Dangerous Good as supplied)
IMDG Class	Not classified as a Dangerous Good by the criteria of the IMDG Code for transport by sea
Packing group	Not Applicable
Environmental hazard	Not a Marine Pollutant
EMS Number	Not Applicable — Not a Dangerous Good as supplied
Special provisions	Not Applicable — Not a Dangerous Good as supplied.

Transport in bulk according to MARPOL Annex II and the IBC Code

Not Applicable — AGent does not transport this product in bulk by sea.

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
Activated Carbon	Not Applicable — AGen does not transport this product in bulk by sea.

Transport in bulk in accordance with the IGC Code

Product name	Ship Type
Activated Carbon	Not Applicable — AGen does not transport this product in bulk by sea.

SECTION 15 Regulatory information**Safety, health and environmental regulations / legislation specific for the substance or mixture**

ACTIVATED CARBON (CAS 7440-44-0) is found on / assessed against the following regulatory lists:

- Australia Hazardous Chemical Information System (HCIS): Eye Irrit. 2A / STOT SE 3 (dust) per PubChem-aggregated GHS
- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): None allocated
- Australian Inventory of Industrial Chemicals (AIIC): Listed
- IARC Group classification: Not classified
- Schedule 10 of the model WHS Regulations (prohibited / restricted carcinogens): Not listed
- Schedule 14 of the model WHS Regulations (health monitoring trigger): Not listed

Additional Regulatory Information

Subject to: Work Health and Safety (General) Regulations 2022 (WA); "Workplace Exposure Limits for Airborne Contaminants" (April 2024) by Safe Work Australia; Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code) current edition.

National Inventory Status

Country / Inventory	Listed
Australia (AIIC / AICS)	Yes
Canada (DSL)	Not applicable — AGen does not export this product
Canada (NDSL)	Not applicable — AGen does not export this product
China (IECSC)	Not applicable — AGen does not export this product
Europe (EINECS / ELINCS / NLP)	Not applicable — AGen does not export this product
Japan (ENCS)	Not applicable — AGen does not export this product
Korea (KECI)	Not applicable — AGen does not export this product
New Zealand (NZIoC)	Not applicable — AGen does not export this product
Philippines (PICCS)	Not applicable — AGen does not export this product
USA (TSCA)	Not applicable — AGen does not export this product
Taiwan (TCSI)	Not applicable — AGen does not export this product
Mexico (INSQ)	Not applicable — AGen does not export this product
Vietnam (NCI)	Not applicable — AGen does not export this product
Russia (FBEPH)	Not applicable — AGen does not export this product

Legend: Yes = All CAS declared ingredients are on the inventory; No = One or more CAS listed ingredients are not on the inventory (may be exempt or require registration).

SECTION 16 Other information

Revision Date	June 2026
Initial Date	June 2026 (AGent 2026 format)

SDS Version Summary

Version	Date of Update	Sections Updated
2026.01 (AGent 2026 format)	June 2026	Reformatted from legacy V1.1 to AGent 2026 layout. CLASSIFICATION UPGRADED from non-hazardous to Eye Irrit. 2A (H319) + STOT SE 3 (H335) for dust, per PubChem-aggregated GHS and AGent default-higher policy. §8 updated to SWA WEL 2024 (dust n.o.s.); removed superseded legacy abbreviations and exposure-standard references; AICS updated to AIIC. Combustible-dust and confined-space oxygen-depletion notes retained. Non-DG.
V1.1 (legacy AGent format)	March 2023	Older format. Not classified as hazardous; Non-Dangerous Goods.

Other information

This SDS is intended as a hazard communication tool to assist in workplace Risk Assessment. It is not an Australian Standard or a definitive document.

Definitions and abbreviations

Abbreviation	Definition
ADG	Australian Dangerous Goods Code
AICS / AIIC	Australian Inventory of Industrial Chemicals (formerly AICS)
AUH	Additional / Australian Hazard statements
BCF	Bioconcentration Factor
BEI	Biological Exposure Index
CAS	Chemical Abstracts Service Registry Number
DNEL	Derived No Effect Level
DSEN	Dermal sensitiser (SWA WEL 2024 notation)
EC50	Effect Concentration causing effect in 50% of test population
EMS	IMDG Emergency Schedule
ERG / EIP	Emergency Response Guide / Emergency Information Panel (SAA/SNZ HB76)
ES	Exposure Standard (legacy term — now WEL)
GHS	Globally Harmonised System of Classification and Labelling
HCIS	Hazardous Chemical Information System (Safe Work Australia)
IARC	International Agency for Research on Cancer
IDLH	Immediately Dangerous to Life or Health
LC50	Lethal Concentration causing death in 50% of test population
LD50	Lethal Dose causing death in 50% of test population
LOAEL	Lowest Observed Adverse Effect Level
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
OEL	Occupational Exposure Limit
OTO	Ototoxic (SWA WEL 2024 notation)
PC-STEL	Permissible Concentration — Short Term Exposure Limit
PC-TWA	Permissible Concentration — Time Weighted Average
PNEC	Predicted No Effect Concentration
RSEN	Respiratory sensitiser (SWA WEL 2024 notation)
SDS	Safety Data Sheet
Sk	Skin notation — absorption through the skin a significant route
STEL	Short Term Exposure Limit (15 min TWA)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons

SWA	Safe Work Australia
TEEL	Temporary Emergency Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average (8 hr / 40 hr week)
WEL	Workplace Exposure Limit (Safe Work Australia, April 2024)
WHS	Work Health and Safety

Disclaimer

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