

1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND OF THE COMPANY:

1.1 Identification of the substance or preparation

Steam activated and non-impregnated granular, pellet or powder activated carbon, used principally to adsorb organic contamination from gaseous and liquid media.

This includes amongst others, products under the following names:- 203CP (excluding AG), 203CPFG, 205E2, 206EA, 206CAT, 207C, 207AP, 208A, 208AP, 208C, 208CAT, 207EA, 208EA, 607C, 607EA, 608EA, AP, APA, APC, AQUACARB (except AG & AGC), AR, AVW, AQ, BPC, BPL, C, C1300, C1600AWD, CAL, CANECAL, CARBSORB, CELLCARB, CENTAUR (except KC10 and ST1), CPG, CYCLECARB, DECOLOURCARB (except DCL 120, DCL 220, DCL 320, DCL 330), ENVIROCARB (except 209M, 209MC, 209MCJ, 5KI, 5 KINA, ST, ST1X), FILTRASORB (except AG), F/S CGW, FLUECARB, GOLDCARB, GRC, GAX, GWX, CPG-LF REACT, POTABLE REACT, INDUSTRIAL REACT, IPG, LSI, MRX, NUCLEARCARB 203C, OL, PCB, PFX, PULSORB, RP0S80, RESPCARB AR, RVG, SC, SGL, SOLCARB (except C3, FDF, KS3), SORBAMINE 8X30 (C), VRU-F3, WS, WSC.

1.2 Company undertaking identification

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1.3 Emergency Telephone Number

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2. HAZARDS IDENTIFICATION:

Caution - Wet activated carbon removes oxygen from air causing severe hazard to workers inside carbon vessels and enclosed or confined spaces. Before entering such an area, sampling and work procedures for low oxygen levels should be taken to ensure ample oxygen availability, observing all local and national regulations.

Contact with airborne dust may be slightly irritating to eyes and respiratory tract.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

| | |
|---------------|---|
| Description | Activated Carbon (100% by weight dry basis) |
| EINECS Number | 231-153-3 |
| CAS Number | 7440-44-0 |
| Customs code | 3802 |

4. FIRST AID MEASURES:

| | |
|---------------------|---|
| Inhalation | Not applicable. |
| Skin contact | Wash with soap and water. |
| Eye Contact | Flush with plenty of water for at least 15 minutes. |
| Ingestion | Not applicable |

5. FIRE-FIGHTING MEASURES:

Prevention – Keep away from sources of heat, strong oxidizers or naked flames.

Suitable extinguishing media - Flood with plenty of water, water spray, CO₂, foam or dry chemical.

Special exposure hazards - Carbon monoxide and carbon dioxide maybe generated in the event of a fire.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions – See section 8, measures for personal protection.

Environmental precautions – None known.

Methods for cleaning up - Sweep up carefully and shovel into a container for disposal. Remove from the spill location. If released report in accordance with local and national regulations.

7. HANDLING AND STORAGE:

7.1 Handling

Avoid contact with skin or eyes. Avoid breathing of dust. Handle in well ventilated work space. Smoking in area should be prohibited.

7.2 Storage

Store in cool, dry, ventilated storage and in closed containers. Keep away from oxidisers, heat or flames. Store away from ignition sources.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection – Local exhaust ventilation system, or an approved particulate filter is recommended if excessive dust is generated.

Hand protection - Protective gloves recommended.

Eye protection - Safety glasses or goggles recommended.

Skin protection - Long sleeved clothing.

Hygiene measures – Keep an eye wash fountain available. Wash hands at breaks and at end of shift. Launder contaminated clothing before use.

Exposure limit values – 3.5 mg/m³. Liberated dust has been measured in processing to be below 2 mg/m³ particulate.

9. PHYSICAL AND CHEMICAL PROPERTIES:

| | |
|---|---|
| Appearance | Particulate solid, pellet, granular or powder |
| Colour | Black |
| Odour | None |
| pH (in a water based slurry). | 6 - 11 |
| Boiling point/boiling range | Not applicable |
| Melting point/melting range | Not applicable |
| Flash point | Not applicable |
| Flammability (solid, gas) | Not applicable |
| Auto flammability | Not applicable |
| Upper explosion limit (UEL) | Not applicable |
| Lower explosion limit (LEL) | Not applicable |
| Vapour pressure | Not applicable |
| Solubility | Insoluble in water, ethanol and hydrocarbons |
| Partition coefficient: n-octanol/water | Not applicable |

10. STABILITY AND REACTIVITY:

Conditions to avoid – Avoid dust generation, naked flames and ignition sources.

Materials to avoid - Strong oxidisers such as ozone, liquid oxygen, chlorine and permanganate.

Hazardous decomposition products - Combustion of this material may result in the generation of carbon monoxide, carbon dioxide and nitrogen oxides.

Hazardous polymerisation - Will not occur

11. TOXICOLOGICAL INFORMATION:

Effects and hazards of eye contact - The physical nature of the product may produce eye irritation.

Effects and Hazards of skin contact - The product is not a primary skin irritant. The primary skin irritation index (Rabbit) is 0 for activated carbon.

Effects and hazards of inhalation - The product is practically non-toxic through inhalation. The acute inhalation LC50 (Rat) is >64.4 mg/l (nominal concentration) for activated carbon.

Effects and hazards of ingestion - The product is non-toxic through ingestion. The acute oral LD50 (Rat) is >1000 mg/kg for activated carbon.

Chronic effects - The effects of long-term, low-level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposures.

12. ECOLOGICAL INFORMATION:

PBT (Persistent, Bioaccumulative and Toxic) and vPvB (very Persistent, very Bioaccumulative) data currently being assessed in accordance with Annex XIII, REACH.

13. DISPOSAL CONSIDERATIONS:

Dispose of in accordance with local and national regulations.

14. TRANSPORT INFORMATION:

Steam activated carbons have been tested according to the United Nations **Transport of Dangerous Goods** test protocol for spontaneously combustible materials. It has been specifically determined that they are non hazardous for transportation with UN 1362, class 4.2.

Proper shipping name "Activated Carbon"

15. REGULATORY INFORMATION

Steam activated carbons are not classified as dangerous. (European Directive 67/548/EEC and 1999/45/EC), legislation to be harmonized and incorporated into REACH (Title XI) inventory beginning 1 December 2010.

Labelling Information

Product name - Activated Carbon

Classification - Non Hazardous

S Phrases - S14 Keep away from oxidizers

S16 Keep away from sources of ignition

16. OTHER INFORMATION

This Safety Data Sheet has been written to comply with the EU Regulation 1907/2006 (REACH) in accordance with Annex II, the "Guide to the Compilation of Safety Data Sheets" and Title IV, Article 31 the "Requirements for Safety Data Sheets".

Whilst every effort has been made to be as accurate as possible, **CHEMVIRON CARBON PROVIDES NO WARRANTY WITH RESPECT TO THIS INFORMATION AND DISCLAIMS ALL LIABILITY ASSOCIATED WITH IT'S USE.**