

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

1.1. Product identifier

Product form	: Substance
Trade name	: ACTIVATED CARBON LDS
Chemical name	: ACTIVATED CARBON - LOW DENSITY SKELETON
IUPAC name	: Activated Carbon - Low Density Skeleton
EC-No.	: 931-334-3
CAS-No.	: 7440-44-0
REACH registration No	: 01-2119488716-22-0001, 01-2119488716-22-0004, UK-REACH: UK-01-9867897380-5-0004
Synonyms	: Trade names: ACTICARBONE, DECOLOURCARB, PULSORB. / Full detailed list available in section 16.

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

Relevant identified uses

Main use category	: Industrial use
Use of the substance/mixture	: Absorbents and adsorbents
Function or use category	: Absorbents and adsorbents

1.3. Details of the supplier of the safety data sheet

Manufacturer

Chemviron S.A.
Parc Industriel, Zone C
7181 Feluy
Belgium
T +32 (0) 64 511 811
sds@calgoncarbon.com, www.chemviron.eu

1.4. Emergency telephone number

Emergency number	: Chemviron Facility Belgium: +32 (0) 64 511 811 Chemviron Facility UK: +44 (0)1942 275 400 Chemviron Facility Italy: +39 02 93 18 58 11 Chemviron Facility France emergency number: +33 (0)1 81 93 41 49 France ORFILA: +33(0)1 45 42 59 59 International Emergency: 112
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Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD 2090	+356 2545 6508	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX	0344 892 0111	Only for healthcare professionals

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Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Edinburgh Centre) Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre	16/17 Framlington Place Newcastle-upon-Tyne NE2 4AB	0344 892 0111	Only for healthcare professionals
United Kingdom	NHS 111/NHS 24/NHS Direct		111 0845 4647	or call a doctor

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

Other hazards which do not result in classification : Check oxygen content before entering area. Risk of suffocation due to oxygen deficiency in confined areas. Dust service goggles should be worn to prevent mechanical injury to eyes due to airborne particles which may be associated with this product. Dust may form explosive mixture in air.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent
Name : ACTIVATED CARBON - Low Density Skeleton
CAS-No. : 7440-44-0
EC-No. : 931-334-3

Name	Product identifier	%
Activated Carbon - Low Density Skeleton	EC-No.: 931-334-3	100

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell.

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First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Gently wash with plenty of soap and water.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes.
First-aid measures after ingestion	: Rinse mouth out with water.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
Symptoms/effects after skin contact	: May cause moderate irritation.
Symptoms/effects after eye contact	: Dust from this product may cause eye irritation.
Symptoms/effects after ingestion	: None under normal conditions.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO ₂), water spray, sand, earth.
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5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide.
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5.3. Advice for firefighters

Protection during firefighting	: Wear recommended personal protective equipment.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: For further information refer to section 8: "Exposure controls/personal protection".
No additional information available	

6.2. Environmental precautions

Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

For containment	: Collect spillage.
Methods for cleaning up	: Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Avoid contact with skin. Avoid dust formation. Provide local exhaust or general room ventilation. Keep away from sources of ignition - No smoking.
Hygiene measures	: Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a closed container. Keep container tightly closed.
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Storage area : Store in a well-ventilated place.
Special rules on packaging : Keep only in original container.

Switzerland

Storage class (LK) : LK 4.2 - Self-igniting materials

7.3. Specific end use(s)

Please seek technical guidance from Chemviron S.A.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

ACTIVATED CARBON LDS (7440-44-0)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	1 mg/m ³
	respirable dust
United Kingdom - Occupational Exposure Limits	
Local name	Graphite
WEL TWA (OEL TWA)	10 mg/m ³ inhalable dust 4 mg/m ³ respirable
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

DNEL and PNEC

ACTIVATED CARBON LDS (7440-44-0)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	1.84 mg/m ³
Long-term - local effects, inhalation	1.84 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	0.9 mg/m ³
Long-term - local effects, inhalation	0.9 mg/m ³
PNEC (Soil)	
PNEC soil	10 mg/kg dwt

PNEC : <

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure that there is a suitable ventilation system.

Personal protection equipment

Personal protective equipment symbol(s):



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Eye and face protection

Eye protection:

Chemical goggles or safety glasses

Skin protection

Skin and body protection:

Protective clothing

Hand protection:

Protective gloves

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Any kind of gloves					

Respiratory protection

Respiratory protection:

Wear appropriate mask

Respiratory protection			
Device	Filter type	Condition	Standard
Dust mask			

Environmental exposure controls

Environmental exposure controls:

Prevent entry to sewers and public waters.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: Black.
Appearance	: Extruded/Granular/Powder.
Odour	: Odourless.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive properties	: See section 9.2 Other information.
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
pH	: Not available
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Solubility	: Insoluble.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not applicable
Particle size	: > 1 — < 10000 µm

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9.2. Other information

Other safety characteristics

FLAMMABILITY AND EXPLOSIVITY : ATEX Flammability Class: A, BS EN 13821:2002; VDI 2263
PROPERTIES FOR POWDER ACTIVATED CARBON PRODUCTS : Minimum cloud Ignition Temperature (MIT): 520 °C, BS EN 50281-2-1:1999
Minimum Layer Ignition Temperature (LIT): >450 °C, 5 mm layer; BS EN 50281-2-1:1999
Maximum Recommended Surface Temperature: 300 °C, BS EN 61241-14:2004
Minimum Ignition Energy (MIE): >1 J, BS EN 13821:2002
Dust Explosion Class: St-1
Kst: 90 bar m/s
Pmax: 5.9 barg
dP/dt: 332 bar/s
Kst, Pmax and dP/dt to BS EN 14034-1:2004 & BS EN 14034-2:2006

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended handling and storage conditions (see section 7).

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid ignition sources.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

On combustion or on thermal decomposition (pyrolysis) releases: Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Activated Carbon - Low Density Skeleton

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method), Remarks on results: other:
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Skin corrosion/irritation : Slightly irritant but not relevant for classification
Serious eye damage/irritation : Slightly irritant but not relevant for classification
Respiratory or skin sensitisation : Slightly irritant but not relevant for classification
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

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11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

12.2. Persistence and degradability

ACTIVATED CARBON LDS (7440-44-0)

Persistence and degradability	No additional information available.
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12.3. Bioaccumulative potential

ACTIVATED CARBON LDS (7440-44-0)

Bioaccumulative potential	No bioaccumulation data available.
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

ACTIVATED CARBON LDS (7440-44-0)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The substance/mixture has no endocrine disrupting properties.

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
European List of Waste (LoW) code	: 15 02 02* - absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances 15 02 03 - absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02






SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

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ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 1362	UN 1362	UN 1362	UN 1362	UN 1362
14.2. UN proper shipping name				
CARBON, ACTIVATED	CARBON, ACTIVATED	CARBON, ACTIVATED	CARBON, ACTIVATED	CARBON, ACTIVATED
Transport document description				
UN 1362 CARBON, ACTIVATED (LDS; but below provisions does apply. This product does not require a classification for transport following exemption by specific test criteria: if the product is transported in bags or big bags: the product can be non regulated when the test 33.3.1.3.3 from the UN testing and criteria manual is negative. ADR: Not subjected to class 4.2 (2.2.42.1.5 of the ADR)), 4.2, III, (E)	UN 1362 CARBON, ACTIVATED (LDS; but below provisions does apply. This product does not require a classification for transport following exemption by specific test criteria: If the product is transported in bags or big bags: the product can be non regulated when the test 33.3.1.3.3 from the UN testing and criteria manual is negative. IMDG: Not subjected to class 4.2 if test IMO-IMDG negative (certificate mandatory)), 4.2, III	UN 1362 CARBON, ACTIVATED (LDS; but below provisions does apply. This product does not require a classification for transport following exemption by specific test criteria: if the product is transported in bags or big bags: the product can be non regulated when the test 33.3.1.3.3 from the UN testing and criteria manual is negative. ICAO/IATA: Samples not subjected to class 4.2 (certificate obligatory)), 4.2, III	UN 1362 CARBON, ACTIVATED (LDS), 4.2, III	UN 1362 CARBON, ACTIVATED (LDS; but below provisions does apply. This product does not require a classification for transport following exemption by specific test criteria: if the product is transported in bags or big bags: the product can be non regulated when the test 33.3.1.3.3 from the UN testing and criteria manual is negative. RID: Not subjected to class 4.2 (2.2.42.1.5 of the RID)), 4.2, III
14.3. Transport hazard class(es)				
4.2	4.2	4.2	4.2	4.2
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-A EmS-No. (Spillage): S-J	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Overland transport

Transport regulations (ADR)	: Subject to the provisions
Classification code (ADR)	: S2
Special provisions (ADR)	: 646
Limited quantities (ADR)	: 0
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: PP11, B3
Mixed packing provisions (ADR)	: MP14
Portable tank and bulk container instructions (ADR)	: T1
Portable tank and bulk container special provisions (ADR)	: TP33

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Tank code (ADR) : SGAV
Vehicle for tank carriage : AT
Transport category (ADR) : 4
Special provisions for carriage - Packages (ADR) : V1
Special provisions for carriage - Bulk (ADR) : VC1, VC2, AP1
Hazard identification number (Kemler No.) : 40
Orange plates :



Tunnel restriction code (ADR) : E
EAC code : 1Y

Transport by sea

Transport regulations (IMDG) : Subject to the provisions
Special provisions (IMDG) : 223, 925
Limited quantities (IMDG) : 0
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P002
Special packing provisions (IMDG) : PP11, PP31
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B3
Tank instructions (IMDG) : T1
Tank special provisions (IMDG) : TP33
Stowage category (IMDG) : A
Stowage and handling (IMDG) : SW1, H2
Properties and observations (IMDG) : Activated porous black carbon materials not including charcoal (see UN 1361). May be in form of powder, granules, pellets, fibres or felts.

Air transport

Transport regulations (IATA) : Subject to the provisions
PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Forbidden
PCA limited quantity max net quantity (IATA) : Forbidden
PCA packing instructions (IATA) : 472
PCA max net quantity (IATA) : 0.5kg
CAO packing instructions (IATA) : 472
CAO max net quantity (IATA) : 0.5kg
Special provisions (IATA) : A3
ERG code (IATA) : 4L

Inland waterway transport

Transport regulations (ADN) : Subject to the provisions
Classification code (ADN) : S2
Special provisions (ADN) : 646
Limited quantities (ADN) : 0
Excepted quantities (ADN) : E1
Equipment required (ADN) : PP
Number of blue cones/lights (ADN) : 0

Rail transport

Transport regulations (RID) : Subject to the provisions
Classification code (RID) : S2
Special provisions (RID) : 646
Limited quantities (RID) : 0
Excepted quantities (RID) : E1
Packing instructions (RID) : P002, IBC08, LP02, R001
Special packing provisions (RID) : PP11, B3
Mixed packing provisions (RID) : MP14
Portable tank and bulk container instructions (RID) : T1
Portable tank and bulk container special provisions (RID) : TP33

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Tank codes for RID tanks (RID)	: SGAV
Transport category (RID)	: 4
Special provisions for carriage – Packages (RID)	: W1
Special provisions for carriage – Bulk (RID)	: VC1, VC2, AP1
Colis express (express parcels) (RID)	: CE11
Hazard identification number (RID)	: 40

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations

REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No. 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

National regulations

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

Water hazard class (WGK) : WGK nwg, Non-hazardous to water.

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed

SZW-lijst van reprotoxische stoffen – : The substance is not listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

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15.2. Chemical safety assessment

A chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Other information

: Detailed Product Ranges (*):

- ACTICARBONE: 3 CGA, BGC 12X40, BGC 8X20, BGE, BGX, BGX 8, CEW, CPF, CPI, CPI CS1, CPI H, CPL, CPL E, CPL E2, CPW, CPW CS1, CPW H, CPW H CARGILL, CSA, CSX, CSX E, CX1, ENO, ENO CS1, ENO H, ENO PC, ENO PC CS1, ENO PC CS2, ENO ANTICROMOS, GHE, GHP, HPX5, HPX7, MD17014, MD17012, MD18003, MRW, MRW ANTICROM, SCF, SCW, SCW E

- DECOLOURCARB: DCL320, DCL320OS, DCL330

- PULSORB: SP315, SP335, SP360, TLX

- SRD yyxxx (development products yy=year, xxx=reference)

(*): Available also as CSA, CSB, CSC, CSD, CSE, CSF and customer customised variants.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.