

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

1.1. Product identifier

| | |
|-----------------------|---|
| Product form | : Substance |
| Trade name | : ACTIVATED CARBON HDS |
| Chemical name | : ACTIVATED CARBON - HIGH DENSITY SKELETON |
| IUPAC name | : Activated Carbon - High Density Skeleton |
| EC-No. | : 931-328-0 |
| CAS-No. | : 7440-44-0 |
| REACH registration No | : 01-2119488894-16-00xx (xx=01, 02, 07, 12), UK-REACH: UK-01-9867897380-5-0005 |
| Synonyms | : Trade names: ACTICARBONE, FILTRASORB, CARBSORB, AQUACARB, GOLDCARB, ENVIROCARB, PULSORB, CYCLECARB, SORBAMINE, BPL, CAL, CENTAUR, CPG, GPP, HPC, LSI, MICROSORB, SGL, SRD, REACT, SOLCARB, WS, WSC. Full detailed list available on section 16. |

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

1.2.1. Relevant identified uses

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

1.2.2. Uses advised against

No additional information available

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 |
|------------------|--|

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

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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.

This substance/mixture does not meet the PBT criteria of REACH regulation, 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 | Product identifier | % |
|--|--|-----|
| Activated Carbon - High Density Skeleton | CAS-No.: 7440-44-0 EC-No.: 931-328-0 REACH-no: 01-2119488894-16-00xx (xx=01, 02, 07, 12), UK-REACH: UK-01-9867897380-5-0005 | 100 |

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash immediately 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 : Slight irritation.
Symptoms/effects after eye contact : Causes eye irritation.
Symptoms/effects after ingestion : None under normal conditions.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂), water spray, sand, earth.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide.

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5.3. Advice for firefighters

Protection during firefighting : Self-contained breathing apparatus.

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".

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

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.

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 well-ventilated place. Store in original container.

Storage area : Store in a well-ventilated place.

Special rules on packaging : Keep only in original container.

7.3. Specific end use(s)

Please seek technical guidance from Chemviron S.A.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| ACTIVATED CARBON HDS (7440-44-0) | |
|--|---------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 1 mg/m ³ |
| | respirable dust |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

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8.1.4. DNEL and PNEC

| ACTIVATED CARBON HDS (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 |

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure that there is a suitable ventilation system.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Protective clothing

Hand protection:

Protective gloves

Other skin protection

Materials for protective clothing:

Wear protective clothing

8.2.2.3. Respiratory protection

Respiratory protection:

Wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Prevent entry to sewers and public waters.

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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 | : 2.31 g/cm ³ Type: 'density' Temp.: 20 °C Remarks on result: 'other:' |
| Relative density | : 2.31 Type: 'relative density' Temp.: 20 °C |
| Relative vapour density at 20°C | : Not applicable |
| Particle size | : > 1 — < 10000 µm |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

| | |
|--|---|
| FLAMMABILITY AND EXPLOSIVITY PROPERTIES FOR POWDER ACTIVATED CARBON PRODUCTS | : ATEX Flammability Class: B, BS EN 13821:2002; VDI 2263 Minimum cloud Ignition Temperature (MIT): 590 °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 Minimum Explosion Concentration (MEC): >60 g/m ³ , BS EN 14034-3 Dust Explosion Class: St-1 Kst: 21 bar m/s Pmax: 5.9 barg dP/dt: 79 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.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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10.4. Conditions to avoid

Avoid ignition sources.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

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

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| | |
|-----------------------------------|---|
| 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: |
| Skin corrosion/irritation | : Slightly irritant but not relevant for classification (Based on available data, the classification criteria are not met) |
| Serious eye damage/irritation | : Slightly irritant but not relevant for classification (Based on available data, the classification criteria are not met) |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified (Based on available data, the classification criteria are not met) |
| Carcinogenicity | : Not classified (Based on available data, the classification criteria are not met) |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
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

No additional information available

12.3. Bioaccumulative potential

ACTIVATED CARBON HDS (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

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

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

| 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 (ADR: Not subjected to class 4.2 (2.2.42.1.5 of the ADR), exemption under special provision 646), (E) | UN 1362 CARBON, ACTIVATED (IMDG: Not subjected to class 4.2, exemption under special provision 925) | UN 1362 Carbon, activated (ICAO/IATA: Samples not subjected to class 4.2, exemption under special provision A3) | UN 1362 CARBON, ACTIVATED (ADN: Not subjected to class 4.2, exemption under special provision 925) | UN 1362 CARBON, ACTIVATED (RID: Not subjected to class 4.2, exemption under special provision 646) |
| 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment: No | Dangerous for the environment: No Marine pollutant: No | Dangerous for the environment: No | Dangerous for the environment: No | Dangerous for the environment: No |
| No supplementary information available | | | | |

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14.6. Special precautions for user

Overland transport

| | |
|---|---|
| Transport regulations (ADR) | : Subject to the provisions |
| 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 |
| 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

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 |
| EmS-No. (Fire) | : F-A |
| EmS-No. (Spillage) | : S-J |
| 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. If chemically activated, may self-heat, and may ignite spontaneously in air. |

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 |
| Special provisions (ADN) | : 646 |
| Limited quantities (ADN) | : 0 |
| Excepted quantities (ADN) | : E1 |
| Equipment required (ADN) | : PP |

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Number of blue cones/lights (ADN) : 0

Rail transport

Transport regulations (RID) : Subject to the provisions
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
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

15.1.1. 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)

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)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

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

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SECTION 16: Other information

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Other information

: Detailed Product Ranges (*):

- ACTICARBONE: 2SA, 3SA, 3S 6/8, SMAG, GS, GSP, ACV 40/3, ACV 40/4, BGP-1.2/3, BGP MX10X30, NCL 48, NCL 616, NCL 816, NCL 1240, NCL 1835, ACM 20-30, ACM 20-4, ACM 30-3, ACM 30-4, ACM 35-4, ACM 40-3 WA, ACM 40-4 WA, ACR, GACR, 830SZ, 830 W, 830 WL, 830 WLP, 840 W, 1020 SZ, 1030 W, 1230 SZ, 1240 SZ, 1240 W, 1240 WL, 2040 WA, GAC 830, GAC 1240, GAC 1240 AW, GAC 1240 L, GAC 1240 PLUS, 25KL, 25KL-H, 25KM, 25KP, 2G, FG600, FG800, FG 1000, TKL, TKL-H, CFK, 2SW, 2SWH, 3SW, 3S, 4S, L2S, L2SH, L3S, L4S, GPG, SM, FG800V, SG, LSM, LSP, 200A SPECIAL, P7, P10, P13, XT50, XT70, XT90, SLE, MD 14011, MD 16002, MD 14002, LC4, LC3, P-12

- AQUACARB: 207C 10X20, 207C 8X30, 207C 12X30, 207C 12X40, 207C 18X40, 207C 20X50, 208C 12X30, 208C 12X40, 208EA 20X40, 607C 12X30, 607C 14X40, CCS 12X40

- BPC1934

- BPL: 4X6, 4X10

- CAL: I, 10X30, 12X40, GR 12X40, TR 12X40

- CARBSORB: 28FB, 30, 30 PH, 30 LPH, 30 PLUS, 36, 38, 40, 40 PH, 40 PLUS, 207EA 20X40, 208EA 12X40 PH

- CENTAUR: 12X40, NDS 12X40, HSV 4X6

- CPG: LF 12X40, LFLPH 12X40, LFD 8X30, 8X30

- CYCLECARB: 201, 201 PH, 201 PW, 202, 301, 301 PH, 305, 401, 501, 501 PH, 601

- ENVIROCARB: ACR, AP4-40, AP4-50, AP4-60, AP3-40, AP3-50, AP3-60, AP4-X, GM-10, GV-10, 207C 4X8, 208C 4X8, 207C 6X12, 208C 6X12, 207EA 4X8, 207EA 6X12

- FILTRASORB: 200, 300, 300NB, 300 HA, 400, 400B, TL830, 816

- GC: 4X8, 8X20, 8X30, 12X20, 12X40

- GG: 8X16, 12X20, 16X35, 20X40, 20X45, 30X60, 35X60

- GN UC: H, S, X

- GOLDCARB: 205C 6X12, 207C 6X12, 208C 6X12

- GPP: 20, 24, 30

- HPC: MAXX 830, MAXX 830 PH, SUPER 412, SUPER 830, SUPER 830 PH, ULTRA 830, ULTRA 830 PH

- LSI: 8X30, 12X40

- MICROSORB: 400, 400R

- NUCLEARCARB

- PULSORB: C, GW, BL, FG4, FG5, FG6, FP, FP-90, HF250, HF250A, PGC, PLN, PLN-HA, PWX, PWX-HA, PWA, RD90, WP235, WP235-90, WP260, WP260-90, 205AP, 206AP, 207AP, 208AP, 208CP

- REACT: GAC/R POT, GAC/R IND, CPG LF, F200 STD, F300 STD, F400 STD, TL830 STD, LSF, CANECAL, 607C 4X12, CAL X, 8X40, 8X40 STD, 12X40 STD, 12X40 AW, 10X20 PLUS STD, CUSTOM REACT

- RESPCARB AER 12X30, AR 14X20, AR 20X40, AR1 12X20, AR2 8X16

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- SGL: 8X18, 8X30

- SOLCARB: 206 CAT LA 4X8, 207A DR 6X12, 207C DR2 6X12, 207C 30X70, 208C 30X70, 208 CM 30x70, 208C DR-P 4X8, 607C 4X8, 607C 6X12

- SORBAMINE: 8X30

- SORBOPOR: MV 118, MV 118/X, MV 118/P, MV 118/2, MV 118/3, MV 121, MV 125

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

- WS: 380, 390, 470, 480, 490

- WSC: 370, 470

(*): Available also as CSA, CSB, CSC, CSD and PH variants

Not classified as UN1362 for transport purposes, exemption under special provisions 646 (ADR), 925 (IMDG) and A3 (IATA).

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.