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

- 1.1 Product identifier **MultiSorp® C**
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
Use of substance Adsorbent
- 1.3 Supplier TCDO Produktionsgesellschaft mbH
Carola-Blome-Str. 7
A-5020 Salzburg
Tel: +43 662 434342-0
Fax: +43 662 434342-3
- Contact Mr. G. Weiss
Email: office@wapotec.at
- 1.4 Emergency phone +43 662 43 43 42-0
Office hours:
MO - TH: 8.00 - 16.00; FR: 8.00 - 12.00
- Toxicity information centre Vienna:**
Phone: +43 1 406 43 43
Available: 0-24h



Section 2 Hazards identification

- 2.1 Classification of the substance or mixture
 according to Directive (EC) N° 1272/2008
Not applicable.
The product is not classified hazardous.
- 2.2 Identification labeling
 according to Directive (EC) N° 1272/2008
Not applicable.
According to Directive (EC) N° 1272/2008 the product does not require hazard labeling.
 Danger defining components for labeling
Not applicable.
- 2.3 Other hazards
May form explosive dust-/air mixtures.



Section 3 Composition/information on ingredients

3.1 Substances


Chemical name	carbon
EC-No.	266-010-4
CAS-No.	65996-77-2
Index No.	-
REACH-No.	-
Weight percent	87

Degree of purity (5): No impurities relevant for classification and labeling.

3.2 Mixtures

 Chemical characteristics

Activated carbon based on natural lignite.

 Dangerous ingredients

Not applicable.

Section 4 First-aid measures

4.1 Description of first-aid measures

No special measures required.

 After inhalation


Move affected person immediately to fresh air. Consult physician if disturbances occur.

 After skin contact

Wash off immediately with plenty of water. Get medical attention if irritation develops and persists.

 After eye contact

Rinse eye for 10 to 15 minutes with water holding eye lids apart. Consult a physician.

 After ingestion

Drink plenty of water. Consult a physician.

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

Skin contact may provoke the following symptoms:

Irritant effects.

At high concentrations product causes severe inflammation of conjunctiva and cornea.

4.3 Indications of immediate medical attention and special treatment needed.

Depending on patient's condition, symptoms and general condition should be evaluated by a physician.

Section 5 Fire-fighting measures

- 5.1 Extinguishing media
- ☉ Suitable extinguishing media
- Foam
Carbon dioxide (CO₂).
- ☉ Unsuitable extinguishing media for safety reasons
- High volume water jet.
- 5.2 Special hazards arising from the substance or mixture
- In case of fire possible formation of carbon monoxide (CO) and carbon dioxide (CO₂).
- 5.3 Special protective actions for fire fighters
- Special protective equipment: Wear self-contained breathing apparatus and full protective clothing.



Section 6 Accidental release of material

- 6.1 Personal precautions, protective equipment and suitable emergency procedures.
- Wear personal protection equipment.
Avoid creation of dust, keep away sources of ignition, ventilate sufficiently.
- 6.2 Environmental precautions
- No special measures required.
- 6.3 Methods and material for retention and cleaning up.
- Take up the product mechanically. Dilute with plenty of water.
Avoid dust formation. Dispose contaminated material: see section 13.
- 6.4 Reference to other clauses
- Protective measures see section 8
Disposal see section 13



Section 7 Handling and storage

- 7.1 Protections for safe handling
- Store in closed systems.
- ☉ Advice on general occupational hygiene
- Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition – no smoking. Keep away from children. All ventilation systems should be filtered before discharge to atmosphere.
- 7.2 Conditions for safe storage including any incompatibilities
- ☉ Design of storage rooms and container
- Storage temperature must not exceed 80°C. Silo must allow hermetical closure. Avoid

ignition sources. Use only approved equipment in the defined explosion protection zones. Silo components have to be earthed and connected conductively.

Material incompatibility

Not applicable.

Recommended storage temperature Ambient temperature

VbF class Not applicable.

7.3 Specific end uses
Adsorbent



Section 8 Exposure controls/personal protection

8.1 Exposure limit values

Occupational exposure limit

Chemical name	Form	Limit value	Legal basis
Carbon	No data available	No data available	Information from the supplier

Derived No Effect Level

Workers

Chemical name	Exposure routes	Acute local effects	Acute systemic effects	Long-term local effects	Long-term systemic effects
Carbon	Oral	Not required	Not required	Not required	Not required
	Inhalation	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

Consumers

Chemical name	Exposure routes	Acute local effects	Acute systemic effects	Long-term local effects	Long-term systemic effects
Carbon	Oral	No data available	No data available	No data available	No data available
	Inhalation	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

Predicted No Effect Concentration

Chemical name	Environmental protection target							
	Fresh water	Fresh water sediment	Marine water	Marine sediment	Food chain	Microorg anisms in sewage treatment	Soil	Air
Carbon	No data available	No data available	No data available	No data available	No data available	No data available	No data available	No data available

8.2 Exposure control

General protective and hygiene measures

Follow usual precautions when dealing with chemicals. Keep away from food and drinks. Do not eat or drink at work, wash hands before breaks and end of work.

Avoid eye and skin contact. Avoid inhaling of steam/aerosols. Change contaminated work wear and clean it before the next wearing. Preventive skin protection.

Protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier

☉ Respiratory protection

Local aspiration, wear respiratory protection (dust mask P1 filter) if insufficient ventilation.

☉ Hand protection

Protective gloves (nitrile, chloroprene) are recommended to avoid skin contact. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The glove must be impermeable and resistant to the product. Choose glove material depending on the respective breach times, permeation rates and degradation.

☉ Eye protection

Safety goggles.

☉ Personal protection

Appropriate protective clothes.



Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties.

☉ Appearance	Solid, granulate
☉ Colour	Dark brown
☉ Odour	Odourless
☉ Odour threshold	Not applicable
☉ pH	Alkaline
☉ Melting point	No data available
☉ Boiling point / boiling range	Not applicable
☉ Flash point	Not applicable
☉ Evaporation rate	Not applicable
☉ Flammability	Flammable solid substance (fire glass A) Combustion behavior acc. to VDI 2263: BZ 2 (short ignition and rapid extinction). Not easily flammable acc. to VDI 2263
☉ Explosive properties	The product is not explosive.

Upper explosion limit	No data available.
Lower explosion limit	No data available.
Vapor pressure	Not applicable
Vapor density	Not applicable
Relative density	1,35 – 1,65 g/cm ₃
Bulk density	450 - 650 kg/m ³
Water solubility	insoluble
Partition coefficient; n-octanol-water	Not applicable
Auto ignition temperature	>850°C
Decomposition temperature	No data available.
Viscosity, kinematic	Not applicable
Oxidizing properties	No oxidizing properties. (Based on the chemical structure, the substance does not contain a surplus of oxygen or any structural groups known to be correlated with a tendency to react exothermally with combustible material).

9.2 Further information
 No data available.



Section 10 Stability and reactivity

10.1	Reactivity No hazardous reaction when using according to regulations. Accumulation of fine dust causes a risk of dust explosions.
10.2	Chemical stability Stable under recommended storage conditions.
10.3	Possibility of hazardous reactions Heating up for more than 800 °C could lead to decomposing into carbon monoxide (CO) and carbon dioxide (CO ₂).
10.4	Conditions to avoid See section 7.
10.5	Incompatible materials Strong oxidizing agents.
10.6	Hazardous decomposition products. See section 5.



Section 11	Toxicological information
11.1	<p>Acute toxicity</p> <p>Not toxic.</p> <ul style="list-style-type: none"> ☉ Skin corrosion/irritation <p>Causes mild skin irritation.</p> <ul style="list-style-type: none"> ☉ Serious eye damage/eye irritation <p>At high concentrations product causes severe inflammation of conjunctiva and cornea.</p> <ul style="list-style-type: none"> ☉ Respiratory or skin sensitization <p>Does not cause skin sensitization</p> <ul style="list-style-type: none"> ☉ Germ cell mutagenicity <p>Contains no ingredient listed as a mutagen</p> <ul style="list-style-type: none"> ☉ Carcinogenicity <p>Not classified as a human carcinogen.</p> <ul style="list-style-type: none"> ☉ Reproductive toxicity <p>No effects on fertility. Based on Human Evidence</p> <ul style="list-style-type: none"> ☉ STOT – single exposure <p>No data available</p> <ul style="list-style-type: none"> ☉ STOT – repeated exposure <p>Inhalation of dust causes discomfort to the upper respiratory tract. Irritant to the respiratory tract in high concentration of dust.</p> <ul style="list-style-type: none"> ☉ Aspiration hazard <p>The product is not known to present an aspiration hazard.</p>



Section 12	Ecological information
12.1	Toxicity
12.1.1	<p>Toxicity to fish</p> <p>Not applicable.</p>
12.1.2	<p>Toxicity to aquatic invertebraes</p> <p>Not applicable.</p>
12.1.3	<p>Toxicity to aquatic plants.</p> <p>Not applicable.</p>
12.1.4	Toxicity to microorganisms / Toxicity to bacteria

	Not applicable.
12.1.5	Toxicity to daphnia and other aquatic invertebrates Not applicable.
12.1.6	Toxicity to soil dwelling organisms Not applicable.
12.1.7.	Toxicity to terrestrial plants Not applicable.
12.1.8	Other effects Not applicable.
12.1.9	Other information Not applicable.
12.2	Persistence and degradability Not applicable.
12.3	Bioaccumulative potential Not applicable.
12.4	Mobility in soil Not applicable.
12.5	Results of PBT- and vPvB-assessment The substance does not meet the criteria for PBT or vPvB substance.
12.6	Other adverse effects No other adverse effects are identified.



Section 13

Disposal considerations

13.1	<p>Waste treatment methods</p> <p>Reuse or recycle whenever possible. If the reuse or recycling is not possible, disposal must be made according to local and national regulation. Processing, use or contamination of this product may change the waste management options. Waste classification code must be determined at the point of waste generation. Dispose of container and unused contents in accordance with applicable member state and local requirements. The used packaging is only meant for packing this product; it should not be reused for other purpose.</p>
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Section 14

Transport information

Non hazardous material according ADR/ IMDG/ RID

- 14.1 UN-Number
Void.
- 14.2 Proper UN-shipping name
Void.
- 14.3 Transport hazard class
Void.
- 14.4 Packaging group
Void.
- 14.5 Environmental hazards
Void.
- 14.6 Special precautions for the user
Avoid any release of dust during transportation, by using air-tight tanks.
- 14.7 Transport in bulk according to Annex II of MARPOL agreement 73/78 and according to IBC-Code
Void.

Section 15 Regulatory information

- 15.1 Safety-, health- and environmental regulations/legislation specific for the substance or mixture
This safety data sheet complies with the Regulations (EC) Reach N° 1907/2006 Annex II. The product is classified according to regulation (EC) 1272/2008 Annex I.
- Germany:
-  Classification in water hazard classes according VwVwS dated 27.07.2005 (list assessment ident n° 801).
nwh (not water hazardous)
 -  The product is not a SEVESO substance, not an ozone depleting substance and not a persistent organic pollutant.
- 15.2 Chemical safety assessment
The product is not subject to material security test

Section 16 Other information

The information provided on this SDS is correct to the best of our knowledge and information, but not to be considered as warranty or quality specification nor creates contractual relationship. The information given is designed only as guidance for safe handling. Since unknown risk potentials can never be completely ruled out, the product should be handled with the usual care when dealing with chemicals and only for the uses listed in Section 1.

The categorization according CLP (EC)1272/2008 is based on the classification of the single

component according to Annex VI of regulation CLP (EC)1272/2008 as well as upon manufacturer details completed by indications from hazardous material database.

☉ Relevant H-Phrases

Not app.

☉ Relevant hazard classification

Not app.

☉ Issue

Version 5 replaces previous versions

Amendments: 2, 3, 4, 5, 6, 7, 8, ,9 ,10, 11, 12, 13, 14, 15

☉ Written by

UmEnA GmbH (<http://www.umena.at>)

☉ Translated by

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☉ Short cuts

n. t. not tested

PBT persistent, bio-accumulative, toxic

vPvB high persistent, high bio-accumulative

ECHA European Chemicals Agency (<http://www.echa.eu>)

