

Best Spezial Multisorb

Safety data sheet according to 1907/2006/EC und 453/2010/EC

2-800-26-023-EU Version 3 | Revision: 12/2014

IMSORB Ölbindemittelhandels- und Logistik GmbH
Büdericher Straße 64 • D-46487 Wesel

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

1.1 Product identifier

Trade name: Best Spezial Multisorb
Synonyms: Oil shale, thermal processing Residue
CAS-Number: 93685-99-5
EC-Number: 297-648-1
Registration number: 01-2119703178-42-0001

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

Relevant identified uses:
Animal embedding material
No uses advised against.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Rotem Amfert Negev Ltd.
Mishor Rotem Plants
M.P. Arava 86800
ISRAEL
Phone: +972-8-6504774
E-Mail: moti_b@rotem-group.com

Supplier:
IMSORB Ölbindemittelhandels- und Logistik GmbH
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Further information obtainable from:
Miri Bar Sinai
Kfir Minerals LTD
Tel: +972-4-6389551
Fax: +972-4-6389556
E-Mail: miri@shacham-g-a.com

1.4 Emergency telephone number:

In Europa call: +49 (0) 152 / 568 745 10 (24 hours a day, 365 days a year)
In Israel call: +972-8-6504777 / +972-8-6504915 (24 hours a day, 365 days a year)

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008: The substance is not classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: None

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Information concerning particular hazards for human and environment: No hazards to be particularly mentioned.

Classification system:

The classification is in line with current EC lists. It is extended, by information from technical literature and company information.

2.1 Classification of the substance or mixture

Labelling according to Regulation (EC) No 1272/2008: Void

Hazard pictograms: Void

Signal word: Void

Hazard statements: Void

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Section 3: Composition/information on ingredients

3.1 Substances

CAS-No. Description: 93685-99-5 Oil shale, thermal processing residue

EC number: 297-648-1

Additional information: This product is UVCB substance.

Components:		
CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO ₂)	<3%

SVHC: None

Section 4: First aid measures

4.1 Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Generally the product does not irritate the skin.

Rinse with warm water.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

NOTE: Never give an unconscious person anything to drink.

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4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: The product is not flammable.
Use fire extinguishing methods suitable to surrounding conditions.
For safety reasons unsuitable extinguishing agents: None

5.2 Special hazards arising from the substance or mixture: None

5.3 Advice for firefighters

Protective equipment: Wear fully protective suit. Mouth respiratory protective device.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid formation of dust.
Ensure adequate ventilation
Wear protective clothing.
Use respiratory protective device against the effects of fumes/dust/aerosol.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

6.4 Reference to other sections:

See Section 8 for information on personal protection equipment.

Section 7: Handling and storage

7.1 Precautions for safe handling

Prevent formation of dust.
Ensure good ventilation/exhaustion at the workplace.
Information about fire - and explosion protection: No special measures required.
The product is not flammable.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store in dry conditions.

Protect from humidity and water.

Information about storage in one common storage facility:

Store away from water.

Do not store together with oxidizing and acidic materials.

Further information about storage conditions: None.

7.3 Specific end use(s):

No further relevant information available.

Section 8: Exposure controls/personal protection

Additional information about design of technical facilities:

Ventilation must be sufficient to maintain TLV-TWA below 3 mg/m³, respirable particles, and 10 mg/m³, inhalable particles [ACGIH recommendation for Particles (Insoluble or poorly soluble). Not Otherwise Specified (PNOS)]

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required

DNELs Not applicable

PNECs

PNEC aqua (freshwater): 0.1 mg/L

8.2 Exposure controls

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed. Do not eat or drink while working.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work

Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.



Protection of hands: Protective gloves

Material of gloves: 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

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses

Body protection: Light weight protective clothing

Limitation and supervision of exposure into the environment

Based on all data available this product is not considered to pose a risk to the environment.

Risk management measures

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General information

Appearance

Form: Granulate

Colour: Grey

Odour: Odourless

pH-value (10 g/l) at 20 °C: 10,8

Change in condition

Melting point / Melting range: 1050 – 1200 °C (OECD 102)

Boiling point / Boiling range: Undetermined (Melting point > 300 °C)

Flash point: Not applicable / This product is inorganic substance.

Flammability (solid, gaseous): Product is not flammable. (based on molecular structure)

Self-igniting: Not determined

Danger of explosion: Product does not present an explosion hazard. (based on molecular structure)

Explosion limits: None

Oxidizing properties: None
The substance does not contain any groups associated with oxidising properties.

Vanour pressure: Not determined (Melting point > 300 °C)

Density:

Bulk density at 20 °C: 690 kg/m³

Solulability in / Miscibility
with water at 20 °C:

< 1 g/l (OECD 105)

Partition coefficient
(n-octanol / water):

Not applicable
This product is inorganic chemical.

Viscosity:

Not applicable
This product is solid. Viscosity is only relevant to liquids.

9.2 Other information

Granulometry: d10 = 2200 µm
d50 = 3300 µm
d90 = 5000 µm

Section 10: Stability and reactivity

10.1 Reactivity: R Reacts with strong acids and oxidizing agents.

10.2 Chemical stability: No decomposition if used and stored according to specifications.

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10.3 Possibility of hazardous reactions : None

10.4 Conditions to avoid: Water

10.5 Incompatible materials: Water

10.6 Hazardous decomposition products: None

Additional information: This product is hygroscopic.

Section 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:

No reliable study with this product is present.

This study is conducted on an analogous substance. (read-across)

no classification is necessary.

68131-74-8 Fluidized Bed Combustion (FBC) Fly Ash		
Oral	LD50	> 2000 mg/kg (rat) (OECD 423)

Specific symptoms in biological assay:

This product is not considered to present an inhalation risk (MMAD > 2000 µm).

Primary irritant effect:

Effect Species Method		
Irritation of skin	OECD 404	not irritating (rabbit)
Irritation of eyes	OECD 437	not irritating (rabbit)

68131-74-8 Fluidized Bed Combustion (FBC) Fly Ash		
Sensibilisation	OECD 429	not sensitising (mouse)

Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

Repeated dose toxicity:

no classification is necessary

This product is not considered to present an inhalation risk. MMAD > 2000 µm

Respirable Crystalline Silica: % SiO₂ crystalline in dust <<1%

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity: None

Acc. to OECD 471, OECD 476, OECD 487 ests.

Carcinogenicity: No data available

(no carcinogenicity study needs to be performed as this substance is not genotoxic)

Reproduktionstoxizität: eine Einstufung ist nicht erforderlich

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Section 12: Ecological information

12.1 Toxicity

Aquatic Toxicity:	
EC50/21 d (static)	39,3 mg/l (Daphnia magna) (OECD 211, freshwater) NOEC (21 d): 1mg/L LOEC (21 d): 3,2 mg/L
EC50/72 h (static)	82,7 mg/L (Algae) (OECD 201, freshwater) NOEC (72 h): 3,2 mg/L LOEC (72 h): 10 mg/L
LC50/96 h (static)	>100 mg/L (Fish Oncorhynchus mykiss) (OECD 203, freshwater) NOEC > 100 mg/L

12.2 Persistence and degradability:

The substance is inorganic; therefore no biodegradation tests are applicable.
Based on previous experience, this product is inert and non-degradable.

12.3 Bioaccumulative potential:

Does not accumulate in organisms
Low potential for bioaccumulation (based on substance properties)

12.4 Mobility in soil :

Low potential for adsorption (based on substance properties).

Type of test Effective concentration Method Assessment	
EC50/3 h (static)	>1000 mg/L (activated sludge) (OECD 209, freshwater) NOEC (3 h): >1000 mg/L

12.5 Results of PBT and vPvB assessment

PBT: No assessment is required for inorganic substances.
vPvB: No assessment is required for inorganic substances.

12.6 Other adverse effects:

No further relevant information available.

Abschnitt 13: Überlegungen zur Entsorgung

13.1 Waste treatment methods

Recommendation: Disposal must be made according to official regulations.
Smaller quantities can be disposed of with household waste.

Uncleaned packaging:

Recommendation: Packaging may be reused or recycled after cleaning. Disposal must be made in accordance with

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Local Authority requirements.

Recommended cleansing agents:

Water, if necessary together with cleansing agents.

Section 14: Transport information

14.1 UN-Number

DOT, ADR, IMDG, IATA: None

14.2 UN proper shipping name

DOT, ADR, IMDG, IATA: None

14.3 Transport hazard class(es)

DOT, ADR, IMDG, IATA

Class: None

14.4 Packing group

DOT, ADR, IMDG, IATA: None

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user:

Not applicable.

14.7 Transport in bulk according to Annex II if MARPOL73/78 and the IBC Code: None

Transport / additional information: Not dangerous according to the above specifications.

UN-“Model Regulation“: None

Section 15: Regulatory information

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

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

National regulations:

Additional classification according to Decree on Hazardous Materials, Annex II: None

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57 None

Registration status (Chemical Inventories listing) :

United States (TSCA) : listed

Canada (DSL) : listed

Australia (AICS) : listed

Japan (ENCS): listed

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Korea (KECI): listed

Philippines (PICCS): listed

NTP (National Toxicology Program): Substance is not listed

IARC (International Agency for Research on Cancer): Substance is not listed

15.2 Chemical safety assessment:

A Chemical Safety Assessment has been carried out.

Section 16: Other information

Department issuing MSDS: Regulatory Affairs of ICL Fertilizers Products

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the „International Air Transport Association“ (IATA) ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the „International Civil Aviation Organization“ (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical

Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOEC: No Observed Effect Concentration

LOEC: Lowest Observed Effect Concentration

UVCB: Substances of Unknown or Variable Composition, Complex reaction products or Biological Materials

MMAD: Mass Median Aerodynamic Diameter

Sources

REACH-Dossier, 2010

REACH CSR, 2010

Data compared to the previous version altered.

Reason for revision: Compliance with Reg. 453/2010 EC, amending Reg. 1907/2006 EC.

The sections where alterations took place are marked with an asterisk in the left border

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