



## MIK80 Magnetic Suspension Powder - black (Aerosol)

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Product Name MIK80 Magnetic Suspension Powder - black (Aerosol)

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

Identified Use(s) SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

Product Category PC14 Metal surface treatment products, including galvanic and electroplating products

Process Category PROC7 Industrial spraying  
PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities  
PROC13 Treatment of articles by dipping and pouring

Environmental release category ERC4 Industrial use of processing aids in processes and products, not becoming part of articles

Article Category AC7 Metal articles

Application of the substance / the mixture Testing material for non-destructive surface crack detection

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer  
Company Identification 3AK Chemie Private Limited  
Address of Manufacturer 5/B5/1 TSIIIC Automotive Park,  
Kallakal, Telangana - 502336 INDIA  
Postal code 502336  
Telephone: +91 98496 40017  
Fax --  
E-mail sales@3akchemie.com  
Office hours

Supplier  
Company Identification 3AK Chemie Private Limited  
Address of Supplier 5/B5/1 TSIIIC Automotive Park,  
Kallakal, Telangana - 502336 INDIA  
Postal code 502336  
Telephone: +91 98496 40017  
Fax --  
E-mail sales@3akchemie.com  
Office hours

#### 1.4 Emergency telephone number

Emergency Phone No. +91 70934 03017  
Contact Customer Care, 3AK Chemie

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) Aerosol 1 :Extremely flammable aerosol. Pressurised container: May burst if heated.  
Asp. Tox. 1 :May be fatal if swallowed and enters airways.

#### 2.2 Label elements

Product Name According to Regulation (EC) No. 1272/2008 (CLP)  
MR76S Magnetic Suspension Powder - black (Aerosol)  
(Contains: Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics, hydrocarbons, C11-C13, isoalkanes, <2% aromatics)

Hazard Pictogram(s)



GHS02



GHS04



GHS08

Signal Word(s)

Danger



## MIK80 Magnetic Suspension Powder - black (Aerosol)

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard Statement(s)        | <p>H222: Extremely flammable aerosol.</p> <p>H229: Pressurised container: May burst if heated.</p> <p>H304: May be fatal if swallowed and enters airways.</p> <p>EUH066: Repeated exposure may cause skin dryness or cracking.</p>                                                                                                                                                                                                                                                                                                                 |
| Precautionary Statement(s) | <p>P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P211: Do not spray on an open flame or other ignition source.</p> <p>P251: Do not pierce or burn, even after use.</p> <p>P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE/doctor.</p> <p>P331: Do NOT induce vomiting.</p> <p>P410: Protect from sunlight.</p> <p>P412: Do not expose to temperatures exceeding 50°C/ 122°F.</p> <p>P501: Dispose of contents in accordance with local, state or national legislation.</p> |

### 2.3 Other hazards

None known.

### 2.4 Additional Information

For full text of H/P Statements see section 16.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

| HAZARDOUS INGREDIENT(S)                                   | CAS No.    | EC No. / REACH Registration No. | %W/W  | Hazard Statement(s)                  | Hazard Pictogram(s)     |
|-----------------------------------------------------------|------------|---------------------------------|-------|--------------------------------------|-------------------------|
| Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics | 64742-47-8 | 927-676-8                       | 50-60 | Asp. Tox. 1 H304                     | GHS08                   |
| Petroleum gases, liquefied, sweetened                     | 68476-86-8 | 270-705-8                       | 15-25 | Flam. Gas 1A H220<br>Press. Gas H280 | GHS02<br>GHS04<br>GHS08 |
| hydrocarbons, C11-C13, isoalkanes, <2% aromatics          | 90622-58-5 | 920-901-0                       | 10-20 | Asp. Tox. 1 H304                     | GHS08                   |

Contains no non-classified vPvB substances or substances with a Union workplace exposure limit.  
For full text of H/P Statements see section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

|              |                                                                                                                                     |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation   | IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.         |
| Skin Contact | After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water.        |
| Eye Contact  | IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.   |
| Ingestion    | Do not induce vomiting because of risk of aspiration into the lungs. If aspiration is suspected obtain immediate medical attention. |

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

Headache Dizziness Unconsciousness Nausea

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

Treat symptomatically

## SECTION 5: FIREFIGHTING MEASURES



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### 5.1 Extinguishing media

Suitable Extinguishing media

In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use polar resistant foam, CO<sub>2</sub> or dry powder to extinguish.

Unsuitable extinguishing media

Do not use water jet or waterspray.

### 5.2 Special hazards arising from the substance or mixture

May decompose in a fire giving off toxic fumes.

### 5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Wear suitable protective clothing, gloves and eye/face protection.

### 6.2 Environmental precautions

This material and its container must be disposed of in a safe way.

### 6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a lidded container for disposal or recovery.

### 6.4 Reference to other sections

See Also Section 8, 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurised container - Do not pierce or burn, even after use.

### 7.2 Conditions for safe storage, including any incompatibilities

Protect from sunlight. Store locked up.

Storage temperature

Do not expose to temperatures exceeding 50°C/ 122°F.

Storage life

Stable under normal conditions.

Incompatible materials

None known.

### 7.3 Specific end use(s)

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

8.1.1 Occupational Exposure Limits

No Occupational Exposure Limit assigned.

### 8.2 Exposure controls

8.2.1. Appropriate engineering controls

Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Use with ventilation, local exhaust ventilation or breathing protection.

8.2.2. Personal protection equipment

Eye Protection

Wear eye protection with side protection (EN ISO 16321-1).



Skin protection

Wear protective clothing and gloves: Impervious gloves (EN 374). Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Gloves should be changed regularly to avoid permeation problems.



Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Where an air-purifying respirator is suitable, use EN371 type AX.





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Thermal hazards      None known.

8.2.3. Environmental Exposure Controls    Avoid release to the environment.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

|                                                          |                  |
|----------------------------------------------------------|------------------|
| Physical state                                           | Aerosol          |
| Colour                                                   | Black            |
| Odour                                                    | hydrocarbon like |
| Melting point/freezing point                             | Not determined   |
| Boiling point or initial boiling point and boiling range | Not applicable.  |
| Lower and upper explosion limit                          | 0.5 / 10.9 Vol % |
| pH                                                       | Not applicable   |
| Partition coefficient n-octanol/water (log value)        | Not determined   |
| Relative vapour density                                  | Not determined   |
| Particle characteristics                                 | Not determined   |

#### 9.2 Other information

|                           |                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------|
| Flash Point (°C)          | Not determined - Aerosol                                                                   |
| Appearance                | Black Liquid (suspension)                                                                  |
| Flammability (solid, gas) | Not applicable - aerosol                                                                   |
| Kinematic Viscosity       | < 3 cst @ 38 °C                                                                            |
| Vapour pressure (Pascal)  | 8300 hPa Basis: Propellant                                                                 |
| Density (g/ml)            | 0.82 g/cm3                                                                                 |
| Organic solvents          | 99.7 %                                                                                     |
| VOC Content (California)  | 99.67 %                                                                                    |
| Heat of Combustion        | 8.8 Btu/lb                                                                                 |
| Auto Ignition Point (°C)  | Not applicable                                                                             |
| Decomposition Temperature | Not applicable                                                                             |
| Auto-ignition temperature | Product is not self igniting                                                               |
| Explosive properties      | Product is not explosive. However, formation of explosive air/vapour mixtures is possible. |
| Solubility (Water)        | Immiscible                                                                                 |
| Vapour density            | Not applicable                                                                             |

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity

None anticipated.

#### 10.2 Chemical Stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

#### 10.4 Conditions to avoid

Keep away from heat and direct sunlight.

#### 10.5 Incompatible materials

Not known.

#### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

### SECTION 11: TOXICOLOGICAL INFORMATION

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

|                               |                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------|
| Acute toxicity - Ingestion    | Calculation method : Not classified.<br>LD50 (oral,rat) mg/kg: >2000<br>LD50 (dermal) mg/kg: >2000 |
| Acute toxicity - Skin Contact | Calculation method : Not classified.                                                               |
| Acute toxicity - Inhalation   | Self classification:                                                                               |



## MIK80 Magnetic Suspension Powder - black (Aerosol)

|                                    |                                                                                                                     |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| LC50 (inhalation, rat) mg/l/4h: >5 |                                                                                                                     |
| Skin corrosion/irritation          | Calculation method : Not classified.                                                                                |
| Serious eye damage/irritation      | Non-irritant                                                                                                        |
| Skin sensitization data            | Calculation method : Not classified.                                                                                |
| Respiratory sensitization data     | Calculation method : Not classified.                                                                                |
| Germ cell mutagenicity             | Calculation method : Not classified.                                                                                |
| Carcinogenicity                    | Calculation method : Not classified.                                                                                |
| Reproductive toxicity              | Calculation method : Not classified.                                                                                |
| Lactation                          | Calculation method : Not classified.                                                                                |
| STOT - single exposure             | Calculation method : Not classified.                                                                                |
| STOT - repeated exposure           | Calculation method : Not classified.                                                                                |
| Aspiration hazard                  | Self classification: May be fatal if swallowed and enters airways.<br>May be fatal if swallowed and enters airways. |

### 11.2 Information on other hazards

Not known.

## SECTION 12: ECOLOGICAL INFORMATION

Ecology-general: May cause long-term adverse effects in the aquatic environment.

### 12.1 Toxicity

|                                    |                   |
|------------------------------------|-------------------|
| Toxicity - Aquatic invertebrates   | No data available |
| Toxicity - Fish                    | No data available |
| Toxicity - Algae                   | No data available |
| Toxicity - Sediment Compartment    | Not classified.   |
| Toxicity - Terrestrial Compartment | Not classified.   |

### 12.2 Persistence and degradability

Moderately /partly biodegradable. Halbwertszeit in der Umwelt < 10 Tage

### 12.3 Bioaccumulative potential

May be accumulated in organism

### 12.4 Mobility in soil

Not known.

### 12.5 Results of PBT and vPvB assessment

Not known.

### 12.6 Endocrine disrupting properties

None known.

### 12.7 Other adverse effects

No information available

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Dispose of contents in accordance with local, state or national legislation. Dispose of this material and its container to hazardous or special waste collection point. Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Do not allow to enter drains, sewers or watercourses. Do NOT landfill.

### 13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN number or ID number

UN No. 1950

### 14.2 UN proper shipping name

UN proper shipping name AEROSOLS

### 14.3 Transport hazard class(es)

ADR/RID

ADR/RID Class

2

ADR Classification Code

5F

Special Provisions

190 327 344 625

Limited Quantities

1 L

Excepted Quantities

E0

Emergency Action Code



### MIK80 Magnetic Suspension Powder - black (Aerosol)

|                                                     |                            |
|-----------------------------------------------------|----------------------------|
| Packing Instructions for Packages                   | P207 LP200                 |
| Special Packing Provisions for Packages             | PP87 RR6 L2                |
| Mixed Packing Instructions for Packages             | MP9                        |
| Instructions for Portable Tanks                     |                            |
| Special Provisions for Portable Tanks               |                            |
| Tank Code for Tanks                                 |                            |
| Special Provisions for Tanks                        |                            |
| Vehicle for Tank Carriage                           |                            |
| ADR Transport Category                              | 2                          |
| Tunnel Restriction Code                             | D                          |
| Special Provisions for Carriage - Packages          | V14                        |
| Special Provisions for Carriage - Bulk              |                            |
| Special Provisions for Carriage - Loading, CV9 CV12 |                            |
| Unloading and Handling                              |                            |
| Special Provisions for Carriage - Operation         | S2                         |
| ADR HIN                                             |                            |
| IMDG                                                |                            |
| IMDG Class                                          | 2                          |
| Special Provisions                                  | 63 190 277 327 344 381 959 |
| Limited Quantities                                  | 1 L                        |
| Excepted Quantities                                 | E0                         |
| Mixed Packing Instructions for Packages             | P207 LP200                 |
| Special Packing Provisions for Packages             | PP87 L2                    |
| Instructions for Portable Tanks                     |                            |
| Special Provisions for Portable Tanks               |                            |
| IMDG EMS                                            | F-D, S-U                   |
| Stowage and Handling                                | SW1 SW22                   |
| Segregation                                         | SG69                       |
| Marine Pollutant                                    |                            |
| ICAO/IATA                                           |                            |
| ICAO/IATA Class                                     | 2.1                        |
| Excepted Quantities                                 | E0                         |
| Passenger and Cargo Aircraft Limited                | Y203                       |
| Quantities Packing Instructions                     |                            |
| Passenger and Cargo Aircraft Limited                | 30Kg G                     |
| Quantities Max net Qty                              |                            |
| Passenger and Cargo Aircraft Packing                | 203                        |
| Instructions                                        |                            |
| Passenger and Cargo Aircraft Max net Qty            | 75Kg                       |
| Cargo Aircraft Packing Instructions                 | 203                        |
| Cargo Aircraft Max net Qty                          | 150Kg                      |
| Special Provisions                                  | A145, A167, A802           |
| Emergency Response Guidebook (ERG)                  | 10L                        |
| Code                                                |                            |
| Labels                                              |                            |
| Labels                                              | 2.1                        |



#### 14.4 Packing group

Packing group

#### 14.5 Environmental hazards

Environmental hazards Not classified as a Marine Pollutant.

#### 14.6 Special precautions for user

Special precautions for user Not known.

#### 14.7 Maritime transport in bulk according to IMO instruments

No information available

### SECTION 15: REGULATORY INFORMATION



## MIK80 Magnetic Suspension Powder - black (Aerosol)

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

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation Not listed

REACH: ANNEX XIV list of substances subject to authorisation Not listed

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not listed

Community Rolling Action Plan (CoRAP) Not listed

Regulation (EU) N° 2019/1021 of the European Parliament and of the Council on persistent organic pollutants Not listed

Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer Not listed

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals Not listed

#### National regulations

Seveso Directive

Code P3a: Lower Tier Quantity 150 - Upper Tier Quantity 500

US NFPA ratings



NFPA health hazard : 1; NFPA fire hazard : 4; NFPA reactivity : 0

### 15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

### LEGEND

Hazard Pictogram(s)



GHS02



GHS08

GHS04: GHS: Gas cylinder

Hazard classification

Flam. Gas 1A : Flammable gas Category 1A

Aerosol 1 : Aerosol, Category 1

Press. Gas : Gases under pressure

Asp. Tox. 1 : Aspiration hazard, Category 1

Hazard Statement(s)

H220: Extremely flammable gas.

H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

H280: Contains gas under pressure; may explode if heated.

H304: May be fatal if swallowed and enters airways.



## MIK80 Magnetic Suspension Powder - black (Aerosol)

EUH066: Repeated exposure may cause skin dryness or cracking.

### Precautionary Statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211: Do not spray on an open flame or other ignition source.  
P251: Do not pierce or burn, even after use.  
P301+P310+P331: IF SWALLOWED: Immediately call a POISON CENTRE/doctor. Do NOT induce vomiting.  
P405: Store locked up.  
P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
P501: Dispose of contents in accordance with local, state or national legislation.

### Acronyms

ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE : Acute Toxicity Estimate  
CAS : Chemical Abstracts Service  
CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  
DNEL : Derived No Effect Level  
EC : European Community  
EINECS : European Inventory of Existing Commercial Chemical Substances  
IATA : International Air Transport Association  
IBC : Intermediate Bulk Container  
ICAO : International Civil Aviation Organization  
IMDG : International Maritime Dangerous Goods  
LTEL : Long term exposure limit  
PBT : Persistent, Bioaccumulative and Toxic  
PNEC : Predicted No Effect Concentration  
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID : Regulations concerning the International Carriage of Dangerous Goods by Rail  
STEL : Short term exposure limit  
STOT : Specific Target Organ Toxicity  
UN : United Nations  
vPvB : very Persistent and very Bioaccumulative

Key literature references and sources for data used to compile the SDS Regulation (EC) No. 1272/2008 (CLP)

Training Advice  
Disclaimers

Regular safety training as appropriate  
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