



MATERIAL SAFETY DATA SHEET
for
FeMn fume
prepared according to Annex II of Regulation EP and Council
(1907/2006/EC and Commission Regulations (EU) 2020/878)

Number: KBU-008-EN
Date of issue:
10 March 2025
Revision No.: 0
Revision Date: -

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name: FeMn fume
Chemical name: Slag from FeMn production
Synonyms: Fume from ferromanganese production

FeMn fume	EC No.	CAS No.	REACH Registration No.	Index No.
	273-728-1	69012-28-8	01-2119446651-40-0008	Not applicable

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

Relevant identified uses:

- for internal consumption by the operator as a raw material input in the production process of manganese alloys,
- as a secondary raw material (original loose form, micro-pelletized, briquettes) for the production of ferroalloys,
- as a secondary raw material in the production of ferrous and non-ferrous metals.

Non-recommended uses:

- for backfilling and remediation of collapse zones.

1.3 Details of the supplier of the Safety Data Sheet

Manufacturer: OFZ as
Address: Široká 381, 027 41 Oravský Podzámok, Slovakia
Phone number: +421/43/5804 111
Fax number: +421/43/5804 320
E-mail: ofz@ofz.sk

1.4 Emergency telephone number

The substance is not classified as hazardous, emergency call numbers are not required.
However, in the event of an accident, call the local emergency line.

European emergency tel. number: 112
National Toxicological
Information Centre (Slovakia): +421 2 5477 4166 (24-hour consultation service)

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

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

Not classified.

2.1.2 Additional information

Information not available.

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2.2 Label elements

Labelling is not required.

2.3 Other hazards

The substance **is not identified** as a PBT (Persistent, Bioaccumulative and Toxic) or vPvB (very Persistent and very Bioaccumulative) substance according to the criteria set out in Annex VIII of the REACH regulation.

The substance **does not contain** any substances listed in the inventory compiled in accordance with Article 59(1) of the REACH Regulation that have endocrine-disrupting properties, nor is it identified as a substances with endocrine-disrupting properties according to the criteria established in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at concentrations of 0.1% or higher.

The substance **is not classified** as hazardous under the CLP Regulation (EC) No 1272/2008.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

UVCB substance containing metal oxides, obtained as a by-product of FeMn ferroalloy production.

Purity: 100% (w/w)

Component	CAS No.	EC No.	Typical concentration	Concentration range	Notes
Silicon dioxide (SiO ₂)	7631-86-9	231-545-4	Not specified (UVCB)	0 – 20% w/w	
Calcium oxide (CaO)	1305-78-8	215-138-9	Not specified (UVCB)	0 – 10% w/w	
Aluminium oxide (Al ₂ O ₃)	1344-28-1	215-691-6	Not specified (UVCB)	0 – 10% w/w	
Sodium oxide (Na ₂ O)	1313-59-3	215-208-9	Not specified (UVCB)	≤ 5% w/w	
Potassium oxide (K ₂ O)	12136-45-7	235-227-6	Not specified (UVCB)	≤ 25% w/w	
Magnesium oxide (MgO)	1309-48-4	215-171-9	Not specified (UVCB)	0 – 10% w/w	
Sulfur trioxide (SO ₃)	7446-11-9	231-197-3	Not specified (UVCB)	≤ 5% w/w	
Iron(II) oxide (FeO)	1345-25-1	215-721-8	Not specified (UVCB)	≤ 5% w/w	
Manganese (Mn)	1344-43-0	215-695-8	Not specified (UVCB)	25 – 55% w/w	
Zinc (Zn)	7440-66-6	231-175-3	Not specified (UVCB)	≤ 5% w/w	
Carbon (C)	7440-44-0	231-153-3	Not specified (UVCB)	≤ 5% w/w	

It does not contain any impurities relevant for classification and labelling.

3.2 Mixtures

Not applicable.

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4. FIRST AID MEASURES

4.1 Description of first aid measures

<u>General notes:</u>	In case of accidental exposure and symptoms, seek medical advice immediately.
<u>After inhalation:</u>	Mechanical irritation caused by dust in the respiratory tract. Remove the affected person to fresh air. If the affected person is not breathing, provide artificial respiration. Seek medical attention if any difficulties occur.
<u>After skin contact:</u>	Wash the skin with water or mild soap.
<u>After eye contact:</u>	Rinse eyes with water or physiological saline. If discomfort persists, seek medical attention.
<u>After ingestion:</u>	Unlikely. However, in case of ingestion, do not induce vomiting and seek medical assistance immediately.

4.2 Most important symptoms and effects, both acute and delayed

Long-term inhalation of dust from the substance may pose a health risk. It can cause irritation or blisters of the nasal mucosa, throat, and lungs, shortness of breath, redness and soreness of the skin, eye irritation, and chronic dermatitis.

4.3 Indication of any need for immediate medical attention and special treatment needed

No relevant information identified.
In case of doubt or if symptoms occur, seek medical advice.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

The substance is **non-flammable**, and its dust does not pose an explosion hazard.

Suitable extinguishing media: Not applicable.

Unsuitable extinguishing media: Not applicable.

5.2 Special hazards arising from the substance or mixture

Not applicable.

5.3 Advice for firefighters

Not applicable.



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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Isolate the hazardous area and prevent access.
Keep unprotected persons at a safe distance.
Wear appropriate PPE (see Section 8).
Ensure dust extraction and adequate ventilation.
In case of accidental release, leave the affected area and contact trained personnel.

6.1.2 For emergency personnel

Isolate the hazardous area and prevent access.
Keep unprotected persons at a safe distance.
Wear appropriate PPE (see Section 8).
Ensure dust extraction and adequate ventilation.

6.2 Environmental precautions

Based on available studies, the substance does not pose a threat to the environment.
Prevent dispersion into the environment and release of material into soil, waterways, and sewage systems.

6.3 Methods and material for containment and cleaning up

6.3.1 Containment

Handle the substance in a way that minimizes dust generation.
Prevent dust dispersion.
Ensure dust extraction and adequate ventilation.

6.3.2 Cleaning up

Collect dust into suitable closed containers.
Vacuuming is preferred over sweeping.
Thoroughly clean contaminated objects and surfaces in compliance with environmental regulations.

6.3.3 Other information

Information not available.

6.4 Reference to other sections

Handling information: see Section 7.
Information on combustion products: see Section 5.
Information on incompatible materials: see Section 10.
Information on personal and environmental protection: see Sections 8, 12 and 13.



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7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Safety measures:

Ensure dust extraction and adequate ventilation.

Handle the substance in a way that minimizes dust generation.

Prevent accumulation and dispersion of dust during handling.

Wear protective clothing, gloves, and safety goggles, as well as appropriate respiratory protection (see Section 8).

Environmental protection measures:

Collect any spilled dust into closed containers.

Prevent dispersion into the environment and release of material into soil, waterways, and sewage systems.

Dispose of in accordance with locally approved regulations.

Hygiene measures:

Do not eat, drink, or smoke while handling the substance.

Wash thoroughly after handling.

Remove contaminated clothing and PPE before entering dining areas.

7.2 Conditions for safe storage including any incompatibility

Stored in silos, sealed containers, large-capacity bags within enclosed warehouses, or bulk stored in enclosed warehouses consisting of roofed buildings with four walls and closable entry openings designed to prevent material dispersion caused by air currents outside the storage area, except for the time strictly necessary for the passage of handling equipment.

7.3 Specific end use (s)

See identified uses of the substance – Section 16.5 of the Annex.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Users should always consult their national or regional regulatory authorities for advice on current legal limits applicable to them. They should also verify whether these limits are legally binding or only recommended guidelines.

Exposure limits

OEL	0.05 mg/m ³ of inhalable dust from the substance
DNEL	Achieved by maintaining OEL below the exposure limit
PNEC	Not required for water, soil, or sediment Leachability of zinc in water is below the threshold limit.

Under normal conditions of use, the substance does not emit contaminants into the air.
OEL/BLV values are not provided.



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Control banding approach

The control banding approach is not applied as a risk management measure for the uses of this substance listed in section 1.2 and in Table 1 of section 16.5 of the Annex.

8.2 Exposure controls

To control potential exposure, dust generation and dispersion must be prevented. The use of appropriate protective measures is recommended. If visible dust dispersion occurs, hygienic and safety measures should be applied to prevent fine dust concentration exceeding 0.05 mg/m³ in the workplace air.

8.2.1 Adequate technical control measures

Regularly measure the occupational exposure limit on-site. If dust is generated during material handling, maintain dust levels within limits by using forced ventilation, local exhaust ventilation, or other measures.

8.2.2 Individual protective measures, such as personal protective equipment

8.2.2.1 Information on the use of protective equipment

Personal protective equipment must comply with good occupational hygiene practices and be consistent with control measures including engineering controls, ventilation, and isolation.

8.2.2.2 Equipment to provide adequate and appropriate protection

a) Eye/face protection

Mandatory use of safety goggles.

b) Skin protection

Hand protection: Mandatory use of gloves resistant to mechanical damage and use of hand cream.

Other skin protection: Mandatory use of protective clothing and footwear.

c) Respiratory protection

Mandatory use of respirator at least of class FFP2/N95.

d) Thermal hazard

Information not available.

8.2.3 Environmental exposure controls

Dust emissions from ventilation systems or workplaces must be controlled to comply with environmental legislation requirements.

Limits for particulate matter (PM_{2.5} and PM₁₀) in ambient air must be implemented (Directive 1999/30/EC and its subsequent amendments).

A concentration below 1 mg/m³ according to BAT-AEL does not pose a threat to the environment.



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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Property	Information
Physical state	Solid (powder form)
Color	Brown
Odor	Odorless, odor threshold: not relevant
Melting/freezing point	Expected >1500°C at 101.3 kPa
Boiling point	Not relevant (substance solid with melting point > 300 °C)
Flammability	Non-flammable (EU method A.10)
Lower and upper explosion limits	Not relevant (not applicable to inorganic substances)
Flash point	Not relevant (not applicable to inorganic substances)
Oxidizing properties	Non-oxidizing (EU method A.17)
Auto-ignition temperature	Not relevant
pH value	Not relevant (solid at ambient temperature)
Kinematic viscosity	Not relevant (solid at ambient temperature))
Water solubility	Not relevant
n-octanol/water partition coefficient	Not relevant
Dissociation constant	Substance does not dissociate due to absence of relevant functional groups
Stability in organic solvents	Not relevant (inorganic substance)
Vapor pressure	Not relevant (melting point > 300°C)
Surface tension	Substance is not surface-active
Bulk density	400 - 1250 kg/m ³
Activity concentration index	≤ 1.0

9.2 Other information

9.2.1 Information regarding physical hazard classes

No information available.

9.2.2 Other safety characteristics

No information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

The substance is stable under normal conditions of use, storage, and transport.

10.2 Chemical stability

The substance is chemically stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions are expected during handling and storage according to recommended instructions.

10.4 Conditions to avoid

Prevent the formation of highly acidic environments. Do not dispose of in locations where leaching of substances may occur.

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10.5 Incompatible materials

Acids, bases, reducing and oxidizing agents.

10.6 Hazardous decomposition products

No information available.

11. TOXICOLOGICAL INFORMATION

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

The substance is **not** classified as hazardous under the CLP Regulation (1272/2008/EC) or the Dangerous Substances Directive (67/548/EEC).

Hazard class	Information
Acute toxicity	Based on the available data, the classification criteria are not met.
Skin corrosion/irritation	Based on the available data, the classification criteria are not met.
Serious eye damage/irritation	Based on the available data, the classification criteria are not met.
Respiratory or skin sensitisation	Based on the available data, the classification criteria are not met.
Germ cell mutagenicity	Based on the available data, the classification criteria are not met.
Carcinogenicity	Based on the available data, the classification criteria are not met.
Reproductive toxicity	Based on the available data, the classification criteria are not met.
Specific target organ toxicity (STOT) - single exposure	Based on the available data, the classification criteria are not met.
Specific target organ toxicity (STOT) - repeated exposure	Based on the available data, the classification criteria are not met.
Aspiration hazard	Based on the available data, the classification criteria are not met.

11.2 Information on other hazards

11.2.1. Endocrine-disrupting properties

The substance does not contain any components at concentrations > 0.1 % that meet the definition of confirmed endocrine disruptors under any EU regulation.

11.2.2. Other information

Information not available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

The substance is not classified as hazardous to the environment. Assessment according to Annex I of the REACH Regulation is required only if the substance meets the criteria, category, or properties for any hazard class under Article 14(4), which are to be applied according to Annex XI of Regulation 1907/2006, as amended and currently in force.

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12.2 Persistence and degradability

Abiotic degradation: No relevant data available

Physical and photochemical elimination: No relevant data available

Biodegradation: Not applicable for inorganic substances.

12.3 Bioaccumulative potential

No relevant data available

12.4 Mobility in soil

No relevant data available

12.5 Results of PBT and vPvB assessment

The substance is inorganic and cannot be classified as PBT/vPvB.

It is not known to contain any impurities >0.1 % or <0.1 % that would qualify as PBT/vPvB.

12.6 Properties of endocrine disruptors

The substance does not contain any components at concentrations >0.1 % that meet the definition of confirmed endocrine disruptors under any EU regulation.

12.7 Other adverse effects

No other adverse effects identified.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Unused product should be recycled in accordance with national legislation.

Disposal must comply with environmental protection requirements and waste management legislation. FeMn fume waste (considered a non-usable product) is classified as hazardous waste under Act No. 79/2015 Coll. on Waste, waste code 10 10 09. Handling of this non-usable product as waste must therefore comply with the Waste Act, Directive 2008/98/EC of the European Parliament and of the Council, and Regulation (EC) No 1013/2006 of the European Parliament and of the Council on shipments of waste.

13.1.1 Disposal of the product/packaging

Information not available.

13.1.2 Information on waste treatment

For disposal within the EU, the appropriate code according to the European Waste Catalogue (EWC) should be used. It is the responsibility of the polluter to assign waste codes specific to industrial sectors and processes according to the European Waste Catalogue (EWC).

13.1.3 Information on waste water disposal

Do not discharge into drains or sewers.

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13.1.4 Other disposal recommendations

Information not available.

14. TRANSPORT INFORMATION

The substance is **not classified** as hazardous for transport. Transport is in accordance with ADR/TPED for road transport, RID for rail transport, IMDG for sea transport, ICAO/IATA for air transport, and ADN for inland waterways.

It is transported in closed containers, sealed bulk bags loaded in closed transport means or tankers. It must not be transported loose in transport means other than tankers or special closed containers.

14.1. UN number or Identification Number

Not applicable.

14.2. UN proper Shipping Name

Not applicable.

14.3. Transport Hazard Class(es)

Not applicable.

14.4. Packing Group

Not applicable.

14.5. Environment Hazards

Not classified as environmentally hazardous.

14.6. Special precautions for user

None.

14.7. Bulk Transport According to IMO Instruments

Not applicable.

15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

EU regulations:

Regulation (EC) No 1907/2006 REACH

Regulation (EC) No 1272/2008 CLP

Commission Regulation (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 (REACH)

Dangerous Substances Directive 67/548/EEC

Dangerous Preparations Directive 1999/45/EC

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Decision No. 2000/532/EC (European Waste Catalogue)

Directive 1999/30/EC relating to limit values for sulfur dioxide, nitrogen dioxide, nitrogen oxides, particulate matter and lead in ambient air

15.2 Chemical safety assessment

Not conducted.

16. OTHER INFORMATION

16.1 List of abbreviations used

Abbreviation	Meaning
ADR/RID	European Agreement concerning the International Carriage of Dangerous Goods by Road / Rail
BAT-AEL	Conclusions on Best Available Techniques – Associated Emission Levels
BC code	Code of Safe Practice for Solid Bulk Cargoes, International Maritime Organization (IMO)
CAS No.	Numerical identifier assigned to chemical substances by the Chemical Abstracts Service (CAS)
CLP	Classification, Labelling and Packaging of substances and mixtures (Regulation (EC) No 1272/2008)
DNEL	Derived no-effect level
EC No.	European Commission number assigned to a chemical substance
EU	European union
IATA	Dangerous Goods Regulations of the International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
IMO	International Maritime Organization
NPEL	Maximum Permissible Exposure Limits for gases, vapours, and aerosols with predominantly toxic effects in workplace air
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative and Toxic substances
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
UN No.	Four-digit number identifying hazardous goods, substances and articles (United Nations)
UVCB	Substances of Unknown or Variable composition, Complex reaction products or Biological materials
vPvB	Very persistent and Very bioaccumulative substances

16.2 List of changes compared to the previous revision

Replaces document: KBU-OFZ-02-EN, Rev. No. 7 issued on 12 December 2022.

16.3 Key Resources

1. Technical Data Sheet for FeMn fume TL-008-EN issued on 24 February, Rev. 0
2. BAT-AEL
3. Regulation (EC) No 1907/2006 (REACH)
4. Regulation (EC) No 1272/2008 (CLP)
5. Regulation (EU) 2020/878 (Annex II to REACH Regulation)



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16.4 Other information

The information contained in this document corresponds to our current knowledge and complies with applicable legal requirements concerning information, packaging, and labelling of hazardous chemical substances. Compliance with the data contained in this Safety Data Sheet is the responsibility of the product user and does not exempt them from respecting all legislative, regulatory, and administrative texts concerning the product, safety, hygiene, and environmental protection.

16.5 Annex

Table No. 1: Identified Uses of the Substance

Identified Use	Process Category (PROC)	Product Category (PC)	Environmental Release Category (ERC)	Use Sector (SU)	Article Category (AC)
As a secondary raw material (in original loose form, micro-pelletized, briquetted) for the production of ferroalloys	8a, 8b	-	6a	-	-
As a secondary raw material in the production of ferrous and non-ferrous metals	8a, 8b	-	6a	-	-

Approved by:

Milan Harcek

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Edited by:

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