



## Safety Data Sheet

acc. to OSHA HCS

Printing date 10/02/2019

Reviewed on 10/02/2019

### 1 Identification

- Product identifier For professional use only
- Trade name: Vintage Iron Fine Powder
- CAS Number:  
7439-89-6
- EC number:  
231-096-4
- Application of the substance /the mixture Surface Coating
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:  
DAS64 Design Ltd., Flake King, Lartington, Barnard Castle, Co. Durham, DL12 9DW  
Tel: +44 (0) 1833 650 353
- Information department: LABORATORY
- Emergency telephone number: +44(0)1833 650 353 (Business hours)

### 2 Hazard(s) identification

- Classification of the substance or mixture  
Flam. Sol. 1 H228 Flammable solid.
- Label elements
- GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



GHS02

- Signal word Danger
- Hazard statements  
Flammable solid.
- Precautionary statements  
Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/equipment.  
Wear protective gloves/protective clothing/eye protection/face protection.  
In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.
- Classification system:
- NFPA ratings (scale 0–4)



Health = 2  
Fire = 1  
Reactivity = 1

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- WHMIS-ratings (scale 0 –4)

HEALTH 2

Health = 2

FIRE 1

Fire = 1

REACTIVITY 1

Reactivity = 1

- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

## 3 Composition/information on ingredients

- Chemical characterization: Substances
- CAS No. Description  
7439–89–6 Iron Fine Powder
- Identification number(s)
- EC number: 231–096–4

## 4 First-aid measures

- Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Do not induce vomiting; immediately call for medical help.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed Treat symptomatically.

## 5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

## 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures  
Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up: Ensure adequate ventilation.
- Reference to other sections  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- Protective Action Criteria for Chemicals
- PAC-1: 3.2 mg/m<sup>3</sup>
- PAC-2: 35 mg/m<sup>3</sup>

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· PAC-3: 150 mg/m<sup>3</sup>

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## 7 Handling and storage

- Handling:
  - Precautions for safe handling
  - Information about protection against explosions and fires: Keep ignition sources away –Do not smoke.
- Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions: Keep receptacle tightly sealed.
  - Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters
  - Components with limit values that require monitoring at the workplace: Not required.
  - Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
  - Personal protective equipment:
    - General protective and hygienic measures: Wash hands before breaks and at the end of work.
    - Breathing equipment:
      - If spraying this product, an ABEK respirator to EN141 and EN405 is normally sufficient. If in doubt, consult a respirator manufacturer and show this safety data sheet.
  - Protection of hands:
    - Not required.
    - The glove material has to be impermeable and resistant to the product/the substance/the preparation.
    - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
  - 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:
    - Not required.
    - Use suitable eye protection in accordance with EN 166, specified to protect against liquid splashes, spray mists or dusts as appropriate.

## 9 Physical and chemical properties

- Information on basic physical and chemical properties
- General Information
- Appearance:
 

Form:	Solid
Color:	Not determined.
· Odor:	Characteristic

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· Odor threshold:	Not determined.
· pH-value:	Not applicable.
· Change in condition Melting point/Melting range:	1,535 °C (2,795 °F)
Boiling point/Boiling range:	3,000 °C (5,432 °F)
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Product is not flammable.
· Decomposition temperature:	Not determined.
· Auto igniting:	Not determined.
· Danger of explosion:	Not determined.
· Explosion limits: Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density at 20 °C (68 °F):	7.86 g/cm <sup>3</sup> (65.592 lbs/gal)
· Bulk density:	2,900 kg/m <sup>3</sup>
· Relative density	Not determined.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in /Miscibility with Water:	Not determined.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity: Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Other information	No further relevant information available.

## 10 Stability and reactivity

- Reactivity No further relevant information available.
- Chemical stability
- Thermal decomposition /conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

## 11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral	LD50	7,500 mg/kg(rat)
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- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- Carcinogenic categories
- IARC (International Agency for Research on Cancer) Substance is not listed.
- NTP (National Toxicology Program) Substance is not listed.
- OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

## 12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- Behavior in environmental systems:
- Bioaccumulative potential: No further relevant information available.
- Mobility in soil: No further relevant information available.
- Additional ecological information:
- General notes: Not hazardous for water.
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects: No further relevant information available.

## 13 Disposal considerations

- Waste treatment methods
- Recommendation:  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

## 14 Transport information

- |                           |  |
|---------------------------|--|
| · UN-Number               |  |
| · DOT, ADR, IMDG, IATA    | UN3178   |
| · UN proper shipping name |  |
| · DOT                     | Flammable solid, inorganic, n.o.s. (Iron Fine Powder)      |
| · ADR                     | 3178 FLAMMABLE SOLID, INORGANIC, N.O.S. (Iron Fine Powder) |
| · IMDG, IATA              | FLAMMABLE SOLID, INORGANIC, N.O.S. (Iron Fine Powder)      |

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- Transport hazard class(es)

- DOT



- Class

4.1 Flammable solids, self-reactive substances and solid desensitised explosives

- Label

4.1

- ADR, IMDG, IATA



- Class

4.1 Flammable solids, self-reactive substances and solid desensitised explosives

- Label

4.1

- Packing group

- DOT, ADR, IMDG, IATA

III

- Environmental hazards:

Not applicable.

- Special precautions for user

Warning: Flammable solids, self-reactive substances and solid desensitised explosives

- Danger code (Kemler):

40

- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

- UN " Model Regulation":

UN 3178 FLAMMABLE SOLID, INORGANIC, N.O.S. (IRON FINE POWDER), 4.1, III

## 15 Regulatory information

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

- Sara

- Section 355 (extremely hazardous substances): Substance is not listed.

- TSCA (Toxic Substances Control Act): ACTIVE

- Hazardous Air Pollutants Substance is not listed.

- Proposition 65

- Chemicals known to cause cancer: Substance is not listed.

- Chemicals known to cause reproductive toxicity for females: Substance is not listed.

- Chemicals known to cause reproductive toxicity for males: Substance is not listed.

- Chemicals known to cause developmental toxicity: Substance is not listed.

- Cancerogenity categories

- EPA (Environmental Protection Agency) Substance is not listed.

- TLV (Threshold Limit Value established by ACGIH) Substance is not listed.

- MAK (German Maximum Workplace Concentration) Substance is not listed.

- NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.

- GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).

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- Hazard pictograms



GHS02

- Signal word Danger
- Hazard statements  
Flammable solid.
- Precautionary statements  
Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
Ground/bond container and receiving equipment.  
Use explosion–proof electrical/ventilating/lighting/equipment.  
Wear protective gloves/protective clothing/eye protection/face protection.  
In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.
- National regulations:
- Water hazard class: Generally not hazardous for water.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## 6 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing SDS: Product safety department: LABORATORY
- Date of preparation /last revision 10/02/2019/–
- Abbreviations and acronyms:  
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  
ACGIH: American Conference of Governmental Industrial Hygienists  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Flam. Sol. 1: Flammable solids – Category 1

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