



Safety data sheet: **Rust Powder BD27**

Revision version 1 dated: 02/07/2024

Pages 11

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier: Rust Powder

Other means of identification: BD27

Contains the following substances with hazardous properties.

1.2 Relevant Identified uses of the substance or mixture and uses advised against:

Identified uses: Miniature modelling applications

1.3 Details of the supplier of the Safety Data Sheet

Deluxe Materials Limited
Unit 12/13
Cufaude Business Park, Cufaude Lane, Bramley, Hampshire
RG26 5DL
United Kingdom

Telephone: +44 (0)1256 883944

Email: john@deluxematerials.com

1.4 Emergency Telephone Number:

+44 (0)1256 883944 available 09:00 to 17:00 GMT Monday to Friday (English language only)

MSDS conforming to EC Directive 1907/2006 and 1272/2008

Deluxe Materials Ltd believes that the information in this Material Safety Data Sheet is accurate. However, Deluxe Materials Ltd makes no express or implied warranty as to the accuracy of such information and expressly disclaims any liability resulting from reliance on such information
Printed Date 02/07/2024



Safety data sheet: **Rust Powder BD27**

Revision version 1 dated: 02/07/2024

Section 2: Hazards Identification

2.1 Classification of the substance or mixture:

2.1.1 CLP

CLP

Hazard statements

Precautionary statements

P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P501	Dispose of contents/container in accordance with local and national regulations

2.2 Label Elements

Signal Word

Hazard statements:

Precautionary statements:

P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P501	Dispose of contents/container in accordance with local and national regulations

2.3 Other Hazards

This substance/ mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), very persistent and very bioaccumulative (uPvB), or any substances of of very high concern (SVHC)

Section 3: Composition/Information on Ingredients

3.1 Substances

N/A

MSDS conforming to EC Directive 1907/2006 and 1272/2008

Deluxe Materials Ltd believes that the information in this Material Safety Data Sheet is accurate. However, Deluxe Materials Ltd makes no express or implied warranty as to the accuracy of such information and expressly disclaims any liability resulting from reliance on such information
Printed Date 02/07/2024



Safety data sheet: **Rust Powder BD27**

Revision version 1 dated: 02/07/2024

3.2 Mixtures

Conc. %	CAS No	EC No	REACH Registration No	Classification according to (EC) No 1272/2008
Iron				
90.00-100.0	7439-89-6	231-096-4	01-2119462838-24-0549	P202 P260 P270 P272 P280 P501
Chromium				
0.10- 1.00	7440-47-3	231-157-5	01-2119485652-31-0219	P202 P260 P270 P272 P280 P501

Section 4: First-Aid Measures

4.1 Description of first aid measures

Skin Contact:	Wash off thoroughly with soap and water. If rash develops seek medical attention.
Eye Contact:	Irrigate thoroughly with water for at least 10 minutes – obtain medical attention if irritation persists
Inhalation:	Remove from exposure, rest and keep warm. In severe cases or if exposure has been great, obtain medical attention.
Ingestion:	Wash out mouth thoroughly with water. Obtain medical attention if further symptoms develop.

4.2 Most important symptoms and effects, both acute and delayed

Skin Contact:	Rash may develop.
Eye Contact:	Mechanical irritation.
Inhalation:	Possible asthma like symptoms.
Ingestion:	No information

4.3 Indications of any immediate medical attention and special treatment needed

Skin Contact:	Treat symptomatically
---------------	-----------------------

MSDS conforming to EC Directive 1907/2006 and 1272/2008

Deluxe Materials Ltd believes that the information in this Material Safety Data Sheet is accurate. However, Deluxe Materials Ltd makes no express or implied warranty as to the accuracy of such information and expressly disclaims any liability resulting from reliance on such information
Printed Date 02/07/2024



Safety data sheet: **Rust Powder BD27**

Revision version 1 dated: 02/07/2024

Eye Contact: Treat symptomatically

Inhalation: Treat symptomatically

Section 5: Fire Fighting Measures

5.1 Extinguishing Media

Use water mist, extinguishing type D powder or sand.

5.2 Special Hazards arising from the substance or mixture

Avoid formation of dust cloud as this may lead to an increased risk of a dust explosion.

5.3 Advice for fire fighters

No Information

Section 6: Accident Release Measures

6.1 Personal precautions

6.1.1 For non-emergency personnel: Wear suitable protective clothing and equipment.

6.1.2 For emergency responders: Wear suitable protective clothing and equipment.

6.2 Environmental precautions: Take precautions to ensure product does not contaminate ground or enter the drainage system.

6.3 Methods and material for containment and clear up

6.3.1 For containment: Not applicable

6.3.2 For cleaning up:

Small spillage: Vacuum with equipment fitted with HEPA filtration.

Large spillage: Solids should be carefully transferred to salvage containers. Any residues should be treated as small spillages.

6.3.3 Other information: No Information.

6.4 Reference to other sections No Information

Section 7: Handling and Storage

7.1 Precautions for safe handling

MSDS conforming to EC Directive 1907/2006 and 1272/2008

Deluxe Materials Ltd believes that the information in this Material Safety Data Sheet is accurate. However, Deluxe Materials Ltd makes no express or implied warranty as to the accuracy of such information and expressly disclaims any liability resulting from reliance on such information
Printed Date 02/07/2024



Safety data sheet: **Rust Powder BD27**

Revision version 1 dated: 02/07/2024

Protective measures:

Avoid contact with skin and eyes. Do not breathe dust. Wash hand and face thoroughly after working with material.

Measures to prevent fire:

Not applicable.

Measures to protect the environment:

Use appropriate containment to avoid environmental hazard.

Advice on general occupational hygiene:

Work using a suitable extraction/ventilation system. Contaminated clothing should be removed and washed before re-use.

7.2 Conditions for safe storage

Technical measures and storage conditions:

Store in sealed container in dry conditions and keep the container closed when not in use

Packaging materials:

Keep in the container supplied, or suitable metal, plastic or polythene container.

Requirements for storage rooms and vessels:

Containers should be stored under cover in a clean and dry environment.

Storage class:

Not applicable.

Further information on storage conditions:

Local regulations should be followed regarding the storage of this material.

7.3 Specific end uses

Identified uses:

Miniature modelling applications

Section 8: Exposure Controls and Personal Protection

8.1 Control Parameters

CAS No.	Name	Legal Basis	WEL 8hr limit		WEL 15min limit	
			ppm TWA (8 hour)	mg/m3 TWA (8 hour)	ppm TWA (short term)	mg/m3 TWA (short term)
7439-89-6	Iron	HSE EH40/2005 Workplace exposure limits	-	Inhalable 10, Respirable 4	-	-

MSDS conforming to EC Directive 1907/2006 and 1272/2008

Deluxe Materials Ltd believes that the information in this Material Safety Data Sheet is accurate. However, Deluxe Materials Ltd makes no express or implied warranty as to the accuracy of such information and expressly disclaims any liability resulting from reliance on such information
Printed Date 02/07/2024

Safety data sheet: **Rust Powder BD27**

Revision version 1 dated: 02/07/2024

7440-47-3	Chromium	HSE EH40/2005 Workplace exposure limits	-	0.5	-	-
-----------	----------	--	---	-----	---	---

8.2 Exposure Controls



8.2.1 Appropriate engineering controls:

Substance/mixture related measures to prevent exposure during identified uses: Not applicable

Structural measures to prevent exposure: Enclosed processes

Organisational measures to prevent exposure: Substance/Mixture only to be used by those trained in its safe use.

Technical measures to prevent exposure: Enclosed processes or local exhaust ventilation

8.2.2 Personal protection equipment:

8.2.2.1 Eye and face protection: Safety glasses

8.2.2.2 Skin protection:

Hand protection: Impervious gloves

Other skin protection: Barrier cream

8.2.2.3 Respiratory protection: FFP3 dust mask to EN149:2001

8.2.2.4 Thermal hazards: Not applicable

8.2.3 Environmental exposure controls:

Substance/mixture related measures to prevent exposure: Not applicable

Instruction measures to prevent exposure: Not applicable

Organisational measures to prevent exposure: Substance/Mixture only to be used by those trained in its safe use.

Technical measures to prevent exposure: Not applicable

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State	Solid (powder)
Colour	Grey
Odour	No data
Melting point/freezing point	No data
Boiling point or initial boiling point and boiling range	No data

MSDS conforming to EC Directive 1907/2006 and 1272/2008

Deluxe Materials Ltd believes that the information in this Material Safety Data Sheet is accurate. However, Deluxe Materials Ltd makes no express or implied warranty as to the accuracy of such information and expressly disclaims any liability resulting from reliance on such information
Printed Date 02/07/2024



Safety data sheet: **Rust Powder BD27**

Revision version 1 dated: 02/07/2024

Flammability (solid,gas)	No data
Density and/or relative density	7.77
Particle Characteristics	See order details for PSD

9.2 Other Information

9.2.1 Information with regard to physical hazard classes
No data available

9.2.2 Other safety characteristics properties, safety characteristics and test results
No data available

Section 10: Stability and Reactivity

10.1 Reactivity:	No data
10.2 Chemical stability:	Stable under normal conditions.
10.3 Possibility of hazardous reactions:	No Data
10.4 Conditions to avoid:	Oxidising agents.
10.5 Incompatible materials:	No data
10.6 Hazardous decomposition products:	No data

Section 11: Toxicological Information

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

(a) acute toxicity	No data available on mixture
(b) skin corrosion/irritation	No data available on mixture
(c) serious eye damage/irritation	No data available on mixture
(d) respiratory or skin sensitisation	No data available on mixture
(e) germ cell mutagenicity	No data available on mixture
(f) carcinogenicity	No data available on mixture
(g) reproductive toxicity	No data available on mixture

MSDS conforming to EC Directive 1907/2006 and 1272/2008

Deluxe Materials Ltd believes that the information in this Material Safety Data Sheet is accurate. However, Deluxe Materials Ltd makes no express or implied warranty as to the accuracy of such information and expressly disclaims any liability resulting from reliance on such information
Printed Date 02/07/2024



Safety data sheet: **Rust Powder BD27**

Revision version 1 dated: 02/07/2024

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

This substance/ mixture contains no components with known/ suspected endocrine disrupting properties

11.2.2 Other information

N/A

Section 12: Ecological Information

12.1 Toxicity

Long-term Ecotoxicity	No data
-----------------------	---------

12.2 Persistence and degradability

Abiotic Degradation	No data
---------------------	---------

Physical- and photo-chemical elimination	No data
--	---------

Biodegradation	No data
----------------	---------

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)	No data
---	---------

Bioconcentration factor (BCF)	No data
-------------------------------	---------

12.4 Mobility in soil

Known or predicted distribution to environmental compartments	No data
---	---------

Surface tension	No data
-----------------	---------

Adsorption/Desorption	No data
-----------------------	---------

12.5 Results of PBT & vPvB assessment	No data
---------------------------------------	---------

12.6 Other adverse effects	No data
----------------------------	---------

12.7 Additional information	No data
-----------------------------	---------

Section 13: Disposal Considerations

13.1 Waste treatment methods

13.1.1 Product/Packaging disposal:

EWC for waste product, ferrous alloys 12-01-02, non-ferrous alloys 12-01-04

EWC for non product contaminated packaging, steel drums 15-01-04, card 15-01-01, plastic 15-01-02, wood 15-01-03

EWC for product contaminated packaging, all types 15-01-10

MSDS conforming to EC Directive 1907/2006 and 1272/2008

Deluxe Materials Ltd believes that the information in this Material Safety Data Sheet is accurate. However, Deluxe Materials Ltd makes no express or implied warranty as to the accuracy of such information and expressly disclaims any liability resulting from reliance on such information
Printed Date 02/07/2024



Safety data sheet: **Rust Powder BD27**

Revision version 1 dated: 02/07/2024

13.1.2 Waste treatment – relevant information:

Chemical residues are generally classified as special waste and as such, are covered by Directive 2008/98/EC of the European Parliament. Contact your local waste disposal authority for advice or pass to a chemical recovery company.

13.1.3 Sewage disposal - relevant information:

13.1.4 Other disposal recommendations:

Section 14: Transport Information

14.1 UN Number	None
14.2 UN proper shipping name	Not classified hazardous for transport
14.3 Transport hazard class(es)	Not applicable
14.4 Packing group	Not applicable
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	None
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IPBC code	Not Applicable

Section 15: Regulatory Information

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

UK	The use of this product must be assessed in accordance with the requirements of the COSHH Regulations 2002 as amended.
EU	EC directive 98/24/EC on the Protection of the health and safety of workers from the risks related to chemical agents at work

Authorisation and/or restrictions on use

Authorisations: Not applicable

Restrictions: see section 1.2 on uses advised against.

Chemical safety assessment: No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

Section 16: Other Information

16.1 Revision Information

MSDS conforming to EC Directive 1907/2006 and 1272/2008

Deluxe Materials Ltd believes that the information in this Material Safety Data Sheet is accurate. However, Deluxe Materials Ltd makes no express or implied warranty as to the accuracy of such information and expressly disclaims any liability resulting from reliance on such information
Printed Date 02/07/2024



Safety data sheet: **Rust Powder BD27**

Revision version 1 dated: 02/07/2024

Revision:		Reason for revision:
1	09/11/2011	Element Fe amended
2	01/02/2012	Element Cr amended to add REACH registration number
3	10/04/2013	SDS updated to reflect current regulation and clarification
4	05/08/2013	Section 14.8. Reference to UN3077 removed
5	02/10/2014	None
6	08/06/2015	Removed CHIP information
7	02/09/2016	Added H350 and H360 CLP hazard statements
8	30/08/2018	Updated REACH Registration No. for Co
9	18/07/2019	Updated REACH registration number
10	09/07/2020	Added H341/H350/H413 CLP statements
11	12/10/2020	Added H302
12	11/05/2021	Updated REACH Registration No
13	11/05/2021	Updated REACH Registration No
14	11/05/2021	Updated REACH Registration No
15	14/06/2023	The following Sections have been updated to reflect the requirements of Regulations (EC) No 1907/2006 of the European Parliament and of the Council, Consolidated Version 17.12.2022: Sections 2, 3, 9 and 11 have been amended

16.2 List of abbreviations.

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CEN	European Committee for Standardisation
CLP	Classification Labelling Packaging Regulation ; Regulation (EC) No 1272/2008
CAS#	Chemical Abstracts Service number
COSHH	Control of Substances Hazardous to Health
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report
DNEL	Derived No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
DU	Downstream User
ECHA	European Chemicals Agency
ES	Exposure Scenario
ext-SDS	Extended Safety Data Sheet (SDS with ES attached)
EWC	European Waste Catalogue (replaced by LoW – see below)
GES	Generic Exposure Scenario
GHS	Globally Harmonized System
LC50	Lethal Concentration to 50 % of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MSDS	Material Safety Data Sheet
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative and Toxic substance
PEC	Predicted Effect Concentration
PNEC(s)	Predicted No Effect Concentration(s)
PPE	Personal Protection Equipment
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
STOT	Specific Target Organ Toxicity
RE	Repeated Exposure
SE	Single Exposure
SVHC	Substances of Very High Concern

MSDS conforming to EC Directive 1907/2006 and 1272/2008

Deluxe Materials Ltd believes that the information in this Material Safety Data Sheet is accurate. However, Deluxe Materials Ltd makes no express or implied warranty as to the accuracy of such information and expressly disclaims any liability resulting from reliance on such information
Printed Date 02/07/2024



Safety data sheet: **Rust Powder BD27**

Revision version 1 dated: 02/07/2024

TWA Time Weighted Average (long term 8 hours) (short term 15 minutes unless specified otherwise)
UN United Nations
vPvB Very Persistent and Very Bioaccumulative

16.3 Key literature references and sources for data

Testing in accordance with the method described in 49 CFR 173 Appendix E and UN Recommendations on the Transport of Dangerous Goods for flammability was used to establish the non-flammability of this product.

16.4 Classification and procedure used to derive the classification for mixtures according to Regulation 1272/2008/EC & 1907/2006/EC.

16.6 Training advice:

16.7 Further information:

Testing in accordance with the method described in 49 CFR 173 Appendix E and UN Recommendations on the Transport of Dangerous Goods for flammability was used to establish the non-flammability of this product.