

According to Regulation (EC) No 1907/2006

UG 2 Flux

Date of issue: 2025/03/12
Revision No.: 1.00**SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY.****1.1 Product Identifier**

Product form : Solid, powder
Substance Name : UG 2 flux, nickel flux
EC Index No. : -

1.2 EC No. : -
CAS No. : -
Type of product : Powder blend

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

1.3.1 Relevant identified uses:
Materials for use in industrial applications. Refer to supplier for additional information.

1.3.2 Uses advised against:
No additional information available.

1.4 Details of the supplier of the safety data sheet.

Associated Additives
245 Lansdowne Road,
Jacobs, 4052,
Durban, SA

Postal:
PO Box 12043
Jacobs, 4026

1.5 **Emergency telephone number**
+27(031) 4681561

SECTION 2. HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture**

Acute Tox. 5; H303

May be harmful if swallowed. (Not adopted by US OSHA)

Eye Irrit. 2; H319

Causes serious eye irritation.

Skin Sens. 1; H317

May cause an allergic skin reaction.

Resp. Sens. 1; H334

May cause allergy or asthma symptoms of breathing difficulties if inhaled.

Carc. 2; H351

Suspected of causing cancer.

STOT RE 1; H372

Causes damage to organs through prolonged or repeated exposure. Specific Target Organs:
(lungs)

2.2. Label elements

Labelling (Regulation (EC) No 1272/2008

Hazard pictograms



Signal word: DANGER

Hazard Statements

H303 May be harmful if swallowed.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements

Prevention:

P281: Use personal protective equipment as required.

P271: Use only outdoors or in a well-ventilated area.

P260: Do not breathe dust or fumes.

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment

Response Statements:

P314: Get medical attention if you feel unwell.

P308+P313: IF EXPOSED OR CONCERNED immediately get medical advice/attention.

P301+P312: IF SWALLOWED call a POISON CENTRE or doctor physician if you feel unwell.

P330: Rinse mouth.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists get medical attention.

P304+P340: IF INHALED Remove to fresh air and keep at rest in a position comfortable for breathing.

Storage:

P405: Store locked up.

Disposal:

P501: Dispose of contents/container isolated from other waste in sealed labelled containers to a registered hazardous waste facility.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nickel	CAS: 7440-02-0; EC no.: 231-111-4	<10	Carc. 2; H351 STOT RE 1; H372 Skin Sens. 1; H317 Aquatic Chronic 3; H412
Copper	CAS: 7440-50-8; EC no.: 231-159-6	<1	Eye irritant Cat 2A H319; Aquatic Chronic 4 H413
Sulphur	CAS: 7704-34-9; EC no.: 231-722-6	<10	Eye irritant Cat 2A H319; skin irritant 2 H315
Sodium tetraborate (Borax)	CAS: 1330-43-4; EC no.: 215-540-4	40 - 60	Eye irritant Cat 2A H319; Reprod., Cat 1A, H360Df
Sodium Carbonate (Soda Ash)	Cas: 497-19-8	10 - 30	Eye irritant Cat 2A H319
Silica	CAS: 14808-60-7	10 - 20	STOT Rep Cat 2, H373
Potassium nitrate	CAS: 7757-79-1; EC no.: 231-818-8	<10	Ox. Sol. 3 H272

Full text of R- and H-statements: see section 16

3.2 Mixture

Not applicable

SECTION 4. FIRST AID MEASURES

4.1 Description of First Aid Measures

First-aid measures general:

Avoid contact during pregnancy. Wear prescribed personal protective equipment. Obtain medical attention if feeling unwell. First Aiders to wear dust masks, eye and hand protection when entering a contaminated area or treating a patient.

First aid measures after inhalation:

Remove victim from area of exposure, avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If patient finds breathing difficult obtain medical attention.

First aid measures after skin contact:

If skin contact occurs, remove contaminated clothing and wash skin with soap and water. If irritation occurs, seek medical advice.

First aid measures after eye contact:

If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists, seek medical attention.

First aid measures after ingestion:

Rinse mouth with water. If swallowed, give a glass of water to drink. Seek medical assistance.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation:

Prolonged and repeated exposure could cause damage to lungs (silicosis).

Symptoms/injuries after skin contact:

May cause skin irritation.

Symptoms/injuries after eye contact:

Causes eye irritation.

Symptoms/injuries after ingestion:

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Not combustible, however, if material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

Not suitable:

Do not use strong water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire:

Decomposes on heating emitting toxic fumes.

5.3 Advise for firefighters

Protection during firefighting:

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Contaminated waste and fire-fighting wastewater must be removed in compliance with regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

6.1.1 For non-emergency personnel:

Emergency procedures:

Ventilate spillage area. Isolate area. Prevent access to unnecessary and unprotected personnel. Evacuate personnel upwind to a safe area. Avoid dust formation. Wear recommended personal protective equipment.

6.1.2 For emergency responders:

Personal protective equipment:

As a minimum, use protective clothing, gloves, goggles and respirator. Refer to Section 8.

6.2 Environmental precautions:

Prevent release to the environment. Avoid dust formation. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up:

Methods for cleaning up:

Avoid dust formation. Vacuum up spillage and collect in suitable container for disposal. Vacuum cleaner should have a fine mesh filter to prevent re-circulation of fine particles). A

small spill may be removed with a damp cloth or sponge. Do not use a dustpan and brush to avoid dust formation. Place collected spillage into appropriate closed containers for disposal.

Other information:

Dispose of materials or solid residues at an authorized site in compliance with local legal requirements.

6.4 Reference to other sections:

For further information refer to section 13

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin, eyes, and clothing. Avoid dust formation. Do not breathe dust. Ensure good ventilation of the workstation. If possible, use only under local exhaust ventilation. Wear recommended personal protective equipment.

Hygiene measures:

Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 Conditions for safe storage, including any incompatibilities:

Storage conditions:

Store in tightly sealed, labelled containers in a cool, dry, well-ventilated area. Store away from foodstuffs.

Incompatible products:

Acids, certain alkalis.

Incompatible materials:

No additional information available

Suitable packaging materials:

Steel drums, paper bags, polypropylene or polyethylene bags.

7.3 Specific end users:

No additional information available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Silica (crystalline) (CAS: 14808-60-7)		
HCS Regulations SA OEL-CL 0.1ppm – Respirable dust	OSHA PEL 0.05mg/m ³ Resp dust	ACGIH TLV: TWA: 0.025mg/m ³ Resp dust

Measuring and Monitoring:

No additional information available

8.2 Exposure controls

Appropriate engineering controls:

Provide eye wash and shower in work area. Processes with the product should be isolated from other processes. Ensure good ventilation of the work station. If possible use only under local exhaust ventilation.

Administrative Controls:

Safe Work Procedures must be available and employees must be trained. Spills should be cleaned up immediately. The number of persons exposed should be minimised.

Hygiene Measures:

No eating, smoking or drinking should be allowed in the work area. Contaminated clothing must be washed before re-use and should not be allowed out of the workplace. After removal of overalls, hands and face should be thoroughly washed using soap and water. The use of a nailbrush is recommended to clean thoroughly. A barrier cream can be applied to exposed skin to reduce itchiness. Wash hands before eating, drinking or smoking. Regular cleaning of masks and clothing is essential

Personal protective equipment:

Hand protection

Eye protection

Skin and body protection

Respiratory protection

Rubber or plastic chemical resistant gloves

Chemical safety goggles.

Long sleeved overall without pockets.

If the exposure levels are > action limit, an approved respirator or particle filter mask capable of keeping the exposure at or below the OEL shall be used.



Environmental exposure controls: Avoid release to the environment

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Product form:	Powder
Appearance	Grey coloured granular powder
Odour	Odourless
Odour threshold	No data available
Relative evaporation rate (butylacetate=1)	Not applicable
Melting point	>700°C
Boiling point	No data available
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature:	No data available
Flammability (solid, gas)	Not applicable

Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	No data available
Solubility	No data available
Log Pow	No data available
Viscosity, kinematic	Not applicable
Viscosity, dynamic	Not applicable
Explosive properties	Not applicable
Explosive limits	Not applicable
Oxidising properties	No data available

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity:

The product is non-reactive under recommended conditions of use, storage and transport.

10.2 Chemical stability

Stable under recommended conditions of use, storage and transport.

10.3 Possibility of hazardous reactions

None under recommended processing conditions.

10.4 Conditions to avoid

Incompatible products, excess heat.

10.5 Incompatible materials

Acids, certain alkalis. Limited information available.

10.6 Hazardous decomposition products

No data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute toxicity:	Harmful if swallowed
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Causes eye irritation
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	No data available
Specific target organ toxicity (single exposure)	Not classified.

Specific target organ toxicity (repeated exposure) No data available

Aspiration hazard Not classified

SECTION 12 ECOLOGICAL INFORMATION

12.1 Ecology – general: No additional information available

12.2 Persistence and degradability

May persist in the environment.

12.3 Bioaccumulative potential

This material may bioaccumulate to some extent.

12.4 Mobility

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No additional information available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods: The product should be recycled if possible. Containers and covers should be cleaned and decontaminated in a controlled manner. Waste should be kept separate from other waste in sealed, labelled containers and disposed of in consultation with licensed waste disposal company in accordance with local legal requirements

SECTION 14 TRANSPORT INFORMATION

In accordance with ADR / IMDG / IATA

	ADR	IMDG	IATA	Class Diamond
UN Number	Not classified	Not classified	Not classified	

SECTION 15 REGULATORY INFORMATION

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

15.1.1 EU Regulations

No REACH Annex XVII restrictions

The product is not on the REACH Candidate List

The product is not on the REACH Annex XIV List

15.1.2 National Regulations:

Environment Conservation Act (73/1989)

Hazardous Chemical Substances Regulations (1995)

National Environmental Management Act (39/2004)
Occupational Health & Safety Act (85/1993)
National Water Act (36/1998)
European Chemical Agency (ECHA) (REACH)

15.2 Chemical Safety Assessment

Chemical safety assessment has not been carried out.

SECTION 16 OTHER INFORMATION

Full text of R-, H- and EUH-statements:

Reprod., Cat 1A, H360Df	Reproductive toxicity, Category 1A, H360Df: May damage fertility and the unborn child by ingestion or inhalation.
Ac tox (orl) Cat 4, H302	Acute toxicity (ORAL) Category 4, H302 Harmful if swallowed
Ac tox (inh) Cat 4, H332	Acute toxicity (Inhalation) Category 4, H332: Harmful if inhaled.
STOT Rep Cat 2, H373	Specific Target Organ Toxicity Category 2, H373: May cause damage to organs (lungs, kidney, nerves, brain) by ingestion or inhalation.
Eye irrit Cat 2A, H319	Eye irritant Category 2A, Causes severe eye irritation.
Aq Chron Cat 1, H410	Aquatic Chronic toxicity Category 1, H410: Very toxic to aquatic life with long lasting effects.
R61	May cause harm to the unborn child
R62,	Possible risk of impaired fertility
R20/22	Harmful by inhalation and if swallowed
R33,	Danger of cumulative effects
R36	Causes eye irritation
R50	Very toxic to aquatic organisms
R53	May cause long term adverse effects in the environment
T,	Toxic
N	Harmful for the Environment

SDS EU Associated Additives

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