



MATERIAL SAFETY DATA SHEET

SUPER OPTIMAL 6013

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : SUPER OPTIMAL 6013
Application : Welding Products (SMAW)
Company : Superon Schweisstechnik India Ltd.
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P.O. Lodhi Road, New Delhi – 110003.
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2. COMPOSITION /INFORMATION ON INGREDIENTS

Hazardous ingredients:

Important: This section covers the materials of which the products are manufactured. The fumes and gases produced during normal use of this product are covered in Section 3. The term "Hazardous" in "Hazardous Material" should be interpreted as a term required and defined in OSHA Hazard Communication Standard 29CFR 1910-1200 and it does not necessarily imply the existence of hazard. The chemicals or compounds reportable by Section 313 of SARA are marked by the symbol #.

INGREDIENTS	CAS#	% RANGE	SYMBOL(S)	R-PHASE
Iron	7439-89-6	52 to 78		
Manganese	7439-96-5	1.5 to 4		
Quartz (SiO ₂)	14808-60-7	1.5 to 8.5		
Cellulose	9004-34-6	1 to 5		
Rutile	1317-80-2	5 to 25		
Potassium silicate	1312-76-1	1 to 5		



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3. HAZARD IDENTIFICATION

Reasonable expected decomposition products from normal use of these products include a complex of the oxides of the materials listed in Section 2, as well as carbon monoxide, carbon dioxide, ozone, and nitrogen oxides (refer to "Characterization of Arc Welding Fume" available from the American Welding Society). THE TLV FOR MANGANESE (0.02 mg/m³) WILL BE REACHED BEFORE THE GENERAL LIMIT FOR WELDING FUMES OF 5 mg/m³ IS REACHED. MONITOR FUMES FOR MAGANESE LEVELS. The only way to determine the true identity of the decomposition products is by sampling and analysis. The composition and quantity of the fumes and gases to which a worker may be overexposed can be determined from a sample obtained from inside the welder's helmet, if worn, or in the worker's breathing zone. See ANSI/AWS F1.1 "Method for Sampling Airborne Particles Generated by Welding and Allied Processes." Available from the American Welding Society.

4. FIRST AID MEASURES

Eyes: Flush with water for 15 minutes. Call a physician.
Skin: Wash thoroughly with water. If rash develops call a physician.
Inhalation: Remove to fresh air or administer oxygen. Call physician.
Ingestion: Get medical attention immediately.

5. FIRE AND EXPLOSION HAZARD DATA

Means of extinguishing: No danger requiring special measures.
Special protective equipment when fighting fire: none.

6. ACCIDENTAL RELEASE MEASURES

Individual precautions: Avoid dust formation/ breathing dust.
Environment protection precautions: No particular indications.
Cleaning measures: Remove spoiled product mechanically.

7. HANDLING AND STORAGE

7.1 HANDLING

With standard transportation equipment.

7.2 STORAGE

Store in a dry place in closed packages.



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8. EXPOSURE CONTROL /PERSONAL PROTECTION

Technical measures: Use adequate local exhaust for welding fumes. Avoid grinding dust inhalation.

Exposure limits: See section 2.

Personal protection:

- **Respiratory protection:** Use an air purifying dust respirator.
- **Hands protection:** Wear appropriate gloves to prevent skin contact.
- **Eyes protection:** Welder's helmets.
- **Skin protection:** Wear appropriate overalls to prevent skin or body contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid.
Odor: None
pH: Non applicable
Melting point: 1560-2000° F, 850-1100°C
Relative density: 6-9 g/cm³
Solubility: Insoluble in water

10. STABILITY AND REACTIVITY

Conditions to avoid: Not applicable.
Materials to avoid: Reacts with acids.
Hazardous decomposition products: Unknown.

11. TOXICOLOGICAL INFORMATION

Toxicity to animals: Unknown
Local effects: Not applicable.
Inhalation: Not applicable for the product. For welding fumes see section 3.
Ingestion: Not applicable.
Contact with skin: No adverse effects expected.



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CARCINOGENICITY:

Effects of chronic (long-term) overexposure to air contaminants may lead to their accumulation in the lungs, a condition which may be seen as dense areas on chest X-rays. The severity of the change is proportional to the length of exposure. The changes seen are not necessarily associated with symptoms or signs of reduced lung function or disease. In addition, the changes on X-rays may be caused by non-work factors such as smoking, etc. Nickel and chromium (in some products) are considered carcinogenic. Long term overexposure to nickel fumes may also cause pulmonary fibrosis and edema. Overexposure to manganese compounds may affect the central nervous system, symptoms of which are languor, sleepiness, muscular weakness, emotional disturbances, and spastic gait. The effect of manganese on the nervous system is irreversible.

12. ECOLOGICAL INFORMATION

About product: Data are unknown
About ingredients: Data are unknown

13. DISPOSAL CONSIDERATIONS

Product: For product elimination, consult recycling companies or appropriate local authority.
Package: May be disposed in approved landfills provided local regulations are observed.

14. TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS:

Land shipment: No hazard - Rail / route (RID/ADR) **Sea shipment:** No hazard
Shipment by air: No hazard

15. REGULATORY INFORMATION

Label CEE: Not necessary
Danger symbols and indications:
R-Phrases:
S-Phrases:



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16. OTHER INFORMATION

DISCLAIMER OF LIABILITY: The information in this MSDS is believe to be correct as of the date issued. It was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assumes the risk of his use thereof.