



# MATERIAL SAFETY DATA SHEET

## SUPER OPTIMAL 7018-1

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name :** SUPER OPTIMAL 7018-1  
**Application :** Welding Products (SMAW)  
**Company :** Superon Schweisstechnik India Ltd.  
15 – 16, Old Sewa Nagar Market ,  
P.O. Lodhi Road, New Delhi – 110003.  
**Ph:- 011- 24647199 /24647252**  
**Fax:- 011-24633847 /24623826**  
**Email:- sales@superonindia.com**

### 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
Quartz (SiO <sub>2</sub> )	14808-60-7	1 to 3		
Potassium hydroxide	1310-58-3	0.1 to 1	C	22-35
Potassium silicate	1312-76-1	0.1 to 1		
Limestone	1317-65-3	10 to 25		
Rutile	1317-80-2	1 to 3		
Fluorite	14542-23-5	3 to 10		
Lithium carbonate	554-13-2	absent to 1		
Iron powder	7439-89-6	10 to 25		
Iron	7439-89-6	50 to 75		
Manganese	7439-96-5	1 to 3		
Cellulose, carboxymethyl ether, sodium salt	9004-32-4	0.1 to 1		
Aluminium powder (stabilized)	7429-90-5	absent to 1		
Magnesium powder (pyrophoric)	7439-95-4	absent to 1		



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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/m<sup>3</sup>) WILL BE REACHED BEFORE THE GENERAL LIMIT FOR WELDING FUMES OF 5 mg/m<sup>3</sup> 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/cm<sup>3</sup>  
**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.