

Chemical Identity	CAS #	Range %	OSHA PEL (mg/m3)	ACGIH-TLV (mg/m3)	Carcinogenicity	EU Classification (67/548/EEC)	CLP/GHS Classification (1272/2008)	Hazardous Classification per 29CFR 1910.1200 (Rev. July, 2012)
Cellulose	9004-34-6	1-11	NR	10	No	Not Dangerous	Not Hazardous	Not Hazardous
Potassium Titanate	12030-97-6	1-11	NR	NR	No	Not Dangerous	Not Hazardous	Not Hazardous
Talc	14807-96-6	1-11	2.0	2.0	No	 (Xn) R20  (Xi) R37	(H332) Acute Tox. 4  (H335) STOT SE 3 	(H332) Acute Tox. 4  (H335) STOT SE 3 
Magnesium Carbonate	546-93-0	1-11	15	10	No	Not Dangerous	Not Hazardous	Not Hazardous
#Manganese	7439-96-5	1-11	5	1	No	 (Xn) R48	(H373) STOT RE 2 	(H373) STOT RE 2 
Titanium Dioxide	13463-67-7	5-15	15	10	No	Carc. Cat. 3  (Xn) R40	(H351) Carc. 2 	(H351) Carc. 2 
Potassium Silicate	1312-76-1	1-11	NR	5	No	 (Xi) R36/38	(H315) Skin Irrit.. 2  (H319) Eye Irrit.. 2A 	(H315) Skin Irrit.. 2  (H319) Eye Irrit.. 2A 
Iron	7439-89-6	65-75	10 (as Fe2O3)	5 (as Fe2O3)	No	Not Dangerous	Not Hazardous	Not Hazardous

Important This section covers the materials of which the products manufactured. The fumes and gases produced during normal use of this product are covered in section 10. 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 #.

4. FIRST AID MEASURES:

Inhalation: Remove to fresh air immediately or administer oxygen. Get medical attention immediately.

Skin: Flush skin with large amounts of water. If irritation develops and persists, get medical attention.

Eye: Flush eyes with water for at least 15 minutes. Get medical attention.

Ingestion: Obtain medical attention immediately if ingested. Rinse mouth.

Electric Shock: Disconnect and turn off the power. Use a nonconductive material to pull victim away from contact with live parts or wires. Immediately contact a physician.

5. FIRE-FIGHTING MEASURES:

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Welding arcs and sparks can ignite combustible and flammable materials. Use the extinguishing media recommended for the burning material and fire situation.

Unsuitable Extinguishing Media: Do not use water on molten metal. Large fires may be flooded with water from a distance.

Specific Hazards Arising From Chemical: Keep away from heat/spark/open flames/hot surfaces – No smoking.
Manganese/manganese oxides, iron oxides

Protective Equipment: Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES:

Personal Precautions: Refer to section 8.

Environment Precautions: Refer to section 13.

Cleaning Measures: Solid objects may be picked up and placed into a container. Liquids or pastes should be scooped up and placed into a container. Wear proper protective equipment while handling these materials. Do not discard as refuse.

7. HANDLING AND STORAGE:

Safety Data Sheet



Process	Manual welding with light formation of spatter and drops • Gas Welding • TIG Welding • MIG Welding • Micro plasma welding • Brazing • Spot Welding • MMA Welding (with rutile-covered electrode)
Environmental Conditions	Operation of machines • Oxygen cutting machines • Plasma cutting machines • Resistance welding machines • Machines for thermal spraying • Bench welding

Class 2	
Impact of Spatter	25 Drops
Heat Transfer (radiation)	RHTI 24 ≥ 16 seconds
Process	Manual welding with heavy formation of spatter and drops • MMA welding (with basic or cellulose-covered electrodes) • MAG welding (with CO₂ or mixed gases) • MIG Welding (with high current) • Self shielded flux core arc welding • Plasma cutting • Gouging • Oxygen cutting • Thermal spraying

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid.

Color: Off White

Odour: Odourless

Odour Threshold: Not Available

pH Value: Not Available

Melting Point/Melting Range: 2800 - 3200° F, 1538° C

Freezing Point: Not Available

Boiling Point/Boiling Range: 5500° F, 3038° C

Flash point: Not Available

Evaporation Rate: Not Available

Flammable (solid, gas) Not Available

Explosion limits: Not Available

Vapour pressure: Not Available

Vapour density: Not Available

Relative density: Not Available

Solubility: Insoluble in water.

Partition coefficient: Not Available

Auto-ignition temperature: Not Available

Decomposition temperature: Not Available

Other Information: No available data.

