

# MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-659/65996-61-4.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
65996-61-4

**Code:**  
M

**RTECS:**

**Code:**  
X

**Name:**  
CELLULOSE AND OTHER CARBONYDRATES

**Other REC Limits:**  
NONE RECOMMENDED

**OSHA PEL:**  
NOT ESTABLISHED

**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
NOT ESTABLISHED

**Code:**  
M

**ACGIHSTEL:**  
N/P

**Code:**

## Control Measures

**Respiratory Protection:**  
USE NIOSH APPROVED SUPPLIED AIR RESPIRATORY PROTECTION OR RESPIRABLE FUME RESPIRATOR WHEN WELDING, BRAZING OR SOLDERING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV.

**Ventilation:**  
USE GENERAL & LOCAL EXHAUST AT FLAME TO KEEP FUMES AND GASES BELOW TLV'S IN THE WORKER'S BREATHING ZONE & GENERAL AREA.

**Protective Gloves:**  
FLAME-PROOF WELDING GLOVES WHEN WELDING

**Eye Protection:**  
HELMET/FACE SHIELD WITH DARK FILTER LENS

**Other Protective Equipment:**  
Equipment EYE WASH STATION, SAFETY SHOWER, HEAD, HAND & BODY PROTECTION TO PREVENT INJURY FROM RADIATION, SPARKS & ELECTRIC SHOCK.

**Work Hygienic Practices:**  
OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING.

**Supplemental Safety and Health:**  
N/P

## Health Hazards Data

**LD50LC50Mixture:**  
LD50 (ORAL RAT) IS UNKNOWN

**Route Of Entry Inds - Inhalation:**  
YES

**Skin:**  
NO

**Ingestion:**  
NO 3

**Carcinogenicity Inds - NTP:**  
YES

**IARC:**  
YES

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
TARGET ORGANS: LUNGS, CNS, EYES, SKIN. ACUTE- FUMES, GASES, DUSTS MAY CAUSE EYES, NOSE, THROAT, LUNGS IRRITATION. SOME TOXIC GASES MAY CAUSE PULMONARY EDEMA, ASPHYXIATION, DEATH. CHRONIC- ACCUMULATION OF IRON COMPOUNDS IN LUNGS, REDUCED LUNG FUNCTION/DISEASE. MANGANESE COMPOUNDS MAY AFFECT CENTRAL NERVOUS SYSTEM.

**Explanation Of Carcinogenicity:**  
CONTAINS QUARTZ. SKIN CANCER HAS BEEN REPORTED, PER MSDS.

**Signs And Symptoms Of Overexposure:**  
IRRITATION, DIZZINESS, Watery EYES, HEADACHE, NAUSEA, BREATHING DIFFICULTY, COUGHING, CHEST PAINS, FEVER, BODY ACHE, CHILLS. ARC RAYS CAN INJURE EYES & BURN SKIN. ELECTRIC SHOCK CAN KILL. IR RADIATION CAN INJURE EYES.

**Medical Cond Aggravated By Exposure:**  
PERSONS WITH IMPAIRED PULMONARY FUNCTION, AIRWAY DISEASES AND CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, CHRONIC BRONCHITIS, ETC.... CAN BE AGGRAVATED BY THE EXPOSURE.

**First Aid:**  
GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EMPLOY FIRST AID TECHNIQUE RECOMMENDED BY RED CROSS. IF BREATHING IS DIFFICULT, PROVIDE OXYGEN AND CALL PHYSICIAN. PROVIDE CPR IF NEEDED. FOR ELECTRIC SHOCK, DISCONNECT POWER. FOR ARC BURNS, APPLY COLD, CLEAN COMPRESSES AND CALL A PHYSICIAN. INGESTION IS UNLIKELY.

**Spill Release Procedures:**  
IN SOLID FORM THIS MATERIAL POSES NO SPECIAL CLEAN-UP PROBLEMS.

**Neutralizing Agent:**  
NOT RELEVANT

**Waste Disposal Methods:**  
PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. KEEP PERSONNEL AWAY. DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

**Handling And Storage Precautions:**  
STORE IN DRY AREA AWAY FROM ACIDS.

**Other Precautions:**  
AVOID BREATHING OF FUMES. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING AND DRINKING. KEEP OUT OF REACH OF CHILDREN.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
NONE

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/R

**Lower Limits:**  
NOT RELEVANT

**Upper Limits:**  
NOT RELEVANT

**Extinguishing Media:**  
USE CHEMICAL OR SAND FOR MOLTEN METALS. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY. 4

**Fire Fighting Procedures:**  
WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.

**Unusual Fire/Explosion Hazard:**  
THIS PRODUCT WILL NOT BURN. HOWEVER, WELDING ARC AND SPARKS CAN IGNITE COMBUSTIBLE AND FLAMMABLE MATERIALS.

## Physical/Chemical Properties

**HCC:**  
N1

**NRC/State LIC No:**  
NOT RELEVANT

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
N/R

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
UNKNOWN

**Decomp Temp:**

**Decomp Text:**  
UNKNOWN

**Vapor Pres:**  
N/R

**Vapor Density:**  
N/R

**Volatile Org Content %:**

**Spec Gravity:**  
UNKNOWN

**VOC Pounds/Gallon:**

**PH:** N/R

**VOC Grams/Liter:**

**Viscosity:**  
NOT RELEVANT

**Evaporation Rate & Reference:**  
NOT RELEVANT

**Solubility in Water:**  
INSOLUBLE

**Appearance and Odor:**  
SOLID, WELDING ELECTRODE 5

**Percent Volatiles by Volume:**  
N/R

**Corrosion Rate:**  
N/R

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
WELDING ARCS

**Materials To Avoid:**  
ACIDS

**Hazardous Decomposition Products:**  
PRIMARYLY IRON OXIDE, SECONDARILY COMPLEX OXIDES OF MANGANESE, POTASSIUM, SILICON, SODIUM AND TITANIUM

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
NOT RELEVANT

## Toxicological Information

**Information:** N/P

## MSDS Transport Information

**Information:** N/P

## Regulatory Information

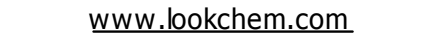
**Sara Title III Information:** N/P

**Federal Regulatory Information:** N/P

**State Regulatory Information:** N/P

## Other Information

**Other Information:** N/P



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