

* Precious metal Clay Hotpot Kit *

PMCFUEL
30526-1010
30526-1050
1060

MATERIAL HEALTH & SAFETY DATA SHEET

(Key: > = Greater than; < = Less than)

SECTION 1 - MATERIAL IDENTIFICATION & USE

Material Name: FIRE STARTER JELLY Code 649
 Supplier: Multiple Choice Inc
 Address: 4067 Bluepoint Drive Forest Ontario Canada
 Emergency Telephone Number: 519 899 2352
 Chemical Name: Methanol Molecular Weight:
 Chemical Family: Alcohols Trade Name/Synonyms: Gelled Fire Starter, Hot Pot Fuel
 Chemical Formula: CH3OH Material Use: Starting aid - Ignitable substances

30526 - all codes
Except
- 1010
- 1020

SECTION 2 - HAZARDOUS INGREDIENTS OF MATERIAL

Hazardous Ingredients	Approximate Concentration %	C.A.S.N.A. or U.N. Numbers	"Exposure Limits"	LD50 / LC50 Specify Species & Route
Methanol	98.4	67-56-1	64000 ppm/4 hrs Inhalation, rat	5628 mg/kg Oral, rat
Non-hazardous ingredients	1.6			

SECTION 3 - PHYSICAL DATA FOR MATERIAL

Physical State: solid
 Specific Gravity: 0.79
 Vapour Pressure (mm/Hg): 96 @ 20°C.
 Boiling Point (°C): 64.6
 % Volatile (by volume): 100%
 pH: n/a
 Density (g/ml): n/a
 Odour Threshold(ppm): n/a
 Vapour Density (Air=1): 1.11
 Freezing Point (°C):
 Density (g/ml): n/a
 Odour & Appearance: Pale blue soft gel/alcohol
 Evaporation Rate: 2.0 (Butyl Acetate = 1.0)
 Solubility in Water(20°C):
 Coefficient of water/oil distribution: n/a

V-211

SECTION 4 - FIRE AND EXPLOSION HAZARD OF MATERIAL

Flammability: Yes. Conditions: Sparks, open flames
 Means of Extinction: Use alcohol foam, dry chemical, CO2, water fog to extinguish fire.
 Special Procedures: Use self-contained breathing apparatus and protective clothing for all indoor fires.
 Do not use direct water stream.
 Excess heat may rupture closed containers.
 Flash point(°C) & Method: 12.2 (T.C.C.)
 Auto Ignition Temperature(°C): 464 °C
 Chemical Sensitivity to Impact:
 Sensitivity to Static Discharge: n/a
 Upper explosion limit(% by volume):
 Flammability Classification:
 Rate of Burning: n/a
 Lower explosion limit (% by volume):
 Hazardous Combustion Products:
 Explosion Power: n/a

SECTION 5 - REACTIVITY DATA

Chemical Stability: Yes Conditions:
 Incompatibility to other substances: Yes Substances: High temperatures, open flames, sparks.
 Reactivity and under what conditions:
 Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide.

Material Name: FIRE STARTER JELLY Code 649

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SECTION 6 - TOXICOLOGICAL PROPERTIES OF PRODUCT

Route of Entry: Skin Contact: Skin Absorption:..... Eye Contact: Yes
 Inhalation Acute:..Yes Inhalation Chronic:..... Ingestion: Yes
 Effects of Acute Exposure to Product:
 Skin: Drying & cracking, dermatitis.
 Eyes: Conjunctivitis, irritation & Inflammation.
 Inhalation: May cause CNS depression & blindness.
 Ingestion: CNS depression, blindness & respiratory failure.

Effects of Chronic Exposure to Product:

LD50 of Product (Specify Species & Route): Oral rat-6200-13000 mg/kg. Sensitization to Product:
 LC50 of Product (Specify Species): Dermal rabbit 20000mg/kg Exposure limits of Product: ACGIH- TLV-TWA 200 ppm
 Irritancy of Product: Synergistic materials: None known.

Carcinogenicity:.. Non-carcinogenic Reproductive effects: Adverse effects not anticipated Teratogenicity: no data Mutagenicity:..No data

SECTION 7 - PREVENTIVE MEASURES

Personal Protective Equipment:

Gloves: Chemical resistant Respiratory: A NIOSH/MSHA respirator with organic vapor cartridges for concentrations up to 1000 ppm.
 Eye: Chemical Goggles Footwear: Boots
 Clothing: Impermeable Apron/coveralls.....Other:

Engineering Controls: Local exhaust desirable. Electrical/mechanical equipment spark proof.

Leak & Spill Procedure: Provide ventilation. Prevent material from entering sewers or water courses.

Waste Disposal: In accordance with Provincial & Federal regulations. Do not dispose in sewers.

Handling Procedures & Equipment: Do not apply to surfaces that are or may be hot. Do not inject directly into flames or any hot areas.

Storage Requirements: In cool, ventilated area. Store product away from sources of ignition and/or heat.

Special Shipping Information:

SECTION 8 - FIRST AID MEASURES

Skin: Thoroughly wash exposed area with soap and water. Remove contaminated clothing and laundry before reuse. Obtain medical advice.

Eyes: Flush with water, lifting upper and lower lids occasionally, then get medical attention.

Inhalation: If breathing is affected, remove individual to fresh air. If breathing is difficult give oxygen. If breathing stops, give artificial respiration.
 Keep person warm, get medical attention. DO NOT GIVE STIMULANTS.

Ingestion: Get medical help immediately. Unless unconscious or convulsing, give large amounts of water or milk to induce vomiting. Ipecac Syrup or by placing finger at back of throat. Never give anything by mouth to an unconscious person.

General advice: Epinephrine or ephedrine may adversely affect the heart with fatal results.

SECTION 9 - PREPARATION DATE OF M.S.D.S.

Additional information/Comments: Poison Management Manual.

Sources Used: The British Columbia Drug & Poison Information Center, Canadian Pharmaceutical Assoc. Ottawa, 1991.

Prepared by: Abe Kelly. Phone #: 905-686-2145 Fax #: 905-686-0592 Date: November 15, 2002

The information provided in this MSDS has been obtained from sources believed to be reliable. The supplier provides no warranties expressed or implied and assumes no responsibility for the accuracy or the completeness of the data contained herein.

*ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS.

*TLV - THRESHOLD LIMIT VALUE

*TWA - TIME WEIGHTED AVERAGE

*NOISH - NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH

*MSHA - MINING SAFETY AND HEALTH ASSOCIATION

* PMC RTV MOLD MATERIAL *

Revd 10-24-03 ✓

MATERIAL SAFETY DATA SHEET



Quick-Sil (Part A)

Manufacturer: F. E. Knight Inc.
 Address: 120 Constitution Blvd. Franklin, MA 02038
 Telephone: 508-520-1666
 Fax: 508-520-2402
 Date Prepared: February 16, 1999
 Emergency Chem-Tel: 1-800-255-3924
 Telephone No: or 617-969-5399
 Prepared by: Michael Knight

0	FIRE HAZARD	HAZARD KEY 4 - SEVERE 3 -SERIOUS 2 -MODERATE 1 - SLIGHT 0 - MINIMAL
0	HEALTH HAZARD	
0	REACTIVITY	

SECTION I - IDENTITY

Common Name (Used on label) Quick-Sil Part A
 (Trade name & Synonyms)

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	%	OSHA PEL	ACGIH TLV	OTHER LIMITS
Silica (crystalline)	15	0.1 mg/m3 (Respirable Dust)	0.1 mg/m3 (Respirable Dust)	IARC listed (SEE OTHER PRECAUTIONS)

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point (°C):	N/A
Vapor Pressure (mmHg):	Negligible (at 25 degrees C)
Vapor Density (Air = 1):	N/A
Specific Gravity:	1.15 (at 25 degrees C)
Melting Point (°C):	N/A
Evaporation Rate:	Negligible (Butyl Acetate =1)
Solubility In Water:	Not soluble
Appearance and Odor:	Beige and odorless paste

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (method used): 200 degrees C min. (open cup)

11P-V

Flammable Limits: Not measured
 Lower: Not measured
 Upper: Not measured

EXTINGUISHING MEDIA:
 Foam, dry chemical or carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES:
 Not required

UNUSUAL FIRE AND EXPLOSION HAZARDS:
 None

SECTION 5 - REACTIVITY DATA

Stability: Stable
 Conditions to Avoid: None
 Incompatibility (materials to avoid): None
 Hazardous Decomposition or By-Products: None
 Hazardous Polymerization: Will not occur
 Conditions to Avoid: None

SECTION 6 - HEALTH HAZARD DATA

Route(s) of Entry: Inhalation ? : [-] Skin ? : [Y] Ingestion ? : [Y]
 Health Hazards: Acute: No information is available
 Chronic: No information is available

CARCINOGENICITY NTP ? : [N] IARC Monographs ? : [N] OSHA Regulated ? : [N]
Signs and Symptoms of Exposure:
 Skin Contact: May cause slight irritation, but no significant effect.
 Eyes Contact: May cause slight irritation.
 Ingestion: No information is available.

Medical Conditions Generally Aggravated By Exposure:
 No information is available

Emergency and First Aid Procedures:
 Skin Contact: Remove paste from skin with dry cloth or towel, and wash exposed area with detergent.
 Eyes Contact: Immediately flush with plenty of water for at least 15 minutes.
 Ingestion: Do not induce vomiting. Call a physician immediately.

SECTION 7 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (specify type): Not required
 Ventilation-
 Local Exhaust: Not required
 Mechanical (general): Not required
 Special: Not required Other: Not required
 Protective Gloves: Plastic film or rubber gloves
 Eye Protection: Safety glasses
 Other Protective Clothing or Equipment: Eyewash equipment

Work/Hygienic Practices: Wash hands after handling

SECTION 8 - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled:

Contain the spill or leak.
Scrape up with cardboard or rag and place in container.

Waste Disposal Method:

Can be burned in accordance with regulations.

Precautions To Be Taken In Handling And Storing:

Keep container closed when not in use.
Store in a cool place.
Keep away from heat and flame.
Don't lay the container on its side.
Avoid contact with eyes and prolonged or repeated skin contact.

OTHER PRECAUTIONS:

* This product contains crystalline silica which is considered a hazard by inhalation with dust and classified as an agent which is probably carcinogenic to humans by IARC.

But we consider that this product doesn't fall under Group 2A in IARC because it doesn't generate the dust under normal handling condition.

- * Remarks:
1. Route(s) of entry / "Y" means "Yes".
 2. Carcinogenicity / "N" means "No".

OTHER INFORMATION:

This materials safety data sheet is offered solely for your information, consideration and investigation. The data described in this MSDS consist of data on literature, our acquisitional data and analogical inference by data of similar chemical substance or product. F.E. Knight, Inc., provides no warranties, either express or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein.

MATERIAL SAFETY DATA SHEET



Quick-Sil (Part B)

Manufacturer: F. E. Knight Inc.
Address: 120 Constitution Blvd.
 Franklin, MA 02038
Telephone: 508-520-1666
Fax: 508-520-2402
Date Prepared: February 16, 1999
Emergency Telephone No: Chem-Tel: 1-800-255-3924
 or 617-969-5399
Prepared by: Michael Knight

0	FIRE HAZARD	HAZARD KEY 4 - SEVERE 3 -SERIOUS 2 -MODERATE 1 - SLIGHT 0 - MINIMAL
0	HEALTH HAZARD	
0	REACTIVITY	

accuracy or completeness of the data contained herein.

SECTION I - IDENTITY

Common Name (Used on label) Quick-Sil Part B
(Trade name & Synonyms)

SECTION 2 - HAZARDOUS INGREDIENTS

<u>HAZARDOUS COMPONENTS</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OTHER LIMITS</u>
Silica (crystalline)		15 0.1 mg/m ³ (Respirable Dust)	0.1 mg/m ³ (Respirable Dust)	IARC listed (SEE OTHER PRECAUTIONS)

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point (°C):	N/A
Vapor Pressure (mmHg):	Negligible (at 25 degrees C)
Vapor Density (Air = 1):	N/A
Specific Gravity:	1.15 (at 25 degrees C)
Melting Point (°C):	N/A
Evaporation Rate:	Negligible (Butyl Acetate =1)
Solubility In Water:	Not soluble
Appearance and Odor:	Green and odorless paste

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (method used): 94 degrees C min. (open cup)

Flammable Limits: Not measured
 Lower: Not measured
 Upper: Not measured

EXTINGUISHING MEDIA:
 Foam, dry chemical or carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES:
 Not required

UNUSUAL FIRE AND EXPLOSION HAZARDS:
 None

SECTION 5 - REACTIVITY DATA

Stability: Unstable
 Conditions to Avoid: Avoid contact with acidic, basic and oxidizing materials.

Incompatibility (materials to avoid): Acidic, basic and oxidizing materials.

Hazardous Decomposition or By-Products: Flammable hydrogen gas.

Hazardous Polymerization: Will not occur
 Conditions to Avoid: None

SECTION 6 - HEALTH HAZARD DATA

Route(s) of Entry: Inhalation ? : [-] Skin ? : [Y] Ingestion ? : [Y]
 Health Hazards: Acute: No information is available
 Chronic: No information is available

CARCINOGENICITY NTP ? : [N] IARC Monographs ? : [N] OSHA Regulated ? : [N]
Signs and Symptoms of Exposure:

Skin Contact: May cause slight irritation, but no significant effect.
 Eyes Contact: May cause slight irritation.
 Ingestion: No information is available.

Medical Conditions Generally Aggravated By Exposure:
 No information is available

Emergency and First Aid Procedures:

Skin Contact: Remove paste from skin with dry cloth or towel, and wash exposed area with detergent.
 Eyes Contact: Immediately flush with plenty of water for at least 15 minutes.
 Ingestion: Do not induce vomiting. Call a physician immediately.

SECTION 7 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (specify type): Not required
 Ventilation-

Local Exhaust: Not required
 Mechanical (general): Not required
 Special: Not required
 Other: Not required

Protective Gloves: Plastic film or rubber gloves
Eye Protection: Safety glasses
Other Protective Clothing or Equipment: Eyewash equipment
Work/Hygienic Practices: Wash hands after handling

SECTION 8 - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled:

Contain the spill or leak.
Scrape up with cardboard or rag and place in container, in such a case pay attention to generation of hydrogen gas by containinants.

Waste Disposal Method:

Can be burned in accordance with regulations.

Precautions To Be Taken In Handling And Storing:

Keep container closed when not in use.
Store in a cool place.
Keep away from heat and flame.
Don't lay the container on its side.
Avoid contact with eyes and prolonged or repeated skin contact.

OTHER PRECAUTIONS:

* This product contains crystalline silica which is considered a hazard by inhalation with dust and classified as an agent which is probably carcinogenic to humans by IARC.

But we consider that this product doesn't fall under Group 2A in IARC because it doesn't generate the dust under normal handling condition.

- * Remarks:
1. Route(s) of entry / "Y" means "Yes".
 2. Carcinogenicity / "N" means "No".

OTHER INFORMATION:

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SECTION I PRODUCT/SUPPLIER INFORMATION

Product: Pure Silver Precious Metal Clay (PMC)

FLAMMABILITY: 0 HEALTH: 2 REACTIVITY: 1

SECTION II INGREDIENT/EXPOSURE LIMIT INFORMATION

Chemical Component	%	CAS No.	TLV	PEL	REL
Silver Powder	80	7740-22-4	0.1 mg/m ³ (m) 0.01 mg/m ³ (s)	0.01 mg/m ³ (m,s)	0.01 mg/hr ² (m,s,Ag/hr)
Organic Binder	<20	UNKNOWN	N.E.	N.E.	N.E.
Water	<20	7732-18-5	N.E.	N.E.	N.E.

m = mist, s = Soluble compounds of silver, Ag = As Silver, hr = 10hr TWA, N.E. = None Established (Exposure Limit)

SECTION III PHYSICAL PROPERTIES

Vapor Pressure (mm Hg):	Not Available	Specific Gravity:	Not Available
Vapor Density (Air = 1):	10.5 (as silver metal)	Boiling Point:	4014°F (2212°C)
Solubility in Water:	Insoluble	Evaporation Rate:	Not Available
Appearance:	Light gray solid	Volatility (%):	Not Available
Odor:	Odorless	pH:	Not Available
Melting Point:	1763°F (962°C)		

SECTION IV FIRE AND EXPLOSION DATA

Flash Point:	Not Available	Flammable Limits:	LEL:	Unknown
Auto Ignition Temperature:	Not Available		UEL:	Unknown

EXTINGUISHING MEDIA: Dry powder, DO NOT USE WATER!

Special Fire Fighting Procedures: Fire fighters should wear full turnout gear and pressure-demand self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: None Known

SECTION V REACTIVITY DATA

Stable? Yes Conditions to Avoid: None Known

Incompatibility (Materials to Avoid): Acetylene, ammonia, nitric acid, ethyl alcohol

Hazardous Decomposition Products: Oxides of silver

Hazardous polymerization may occur? No Conditions to Avoid: None Known

SECTION VI HEALTH HAZARD DATA

Primary Routes of Exposure: Inhalation, ingestion, skin and eye contact

Acute signs and Symptoms of Overexposure: May irritate eyes, skin, and respiratory tract. Other symptoms may include blue gray discoloration of eyes, skin and mucous membranes.

Chronic Signs and Symptoms of Overexposure: Exposure to fume or dust may cause accumulation of silver in the body (Ag, Ag₂S) causing a blue-gray discoloration of eyes, skin, and mucous membranes.

010 555 1301 P.03/03
 Material/Trade Name: Silver Clay

SECTION VI HEALTH HAZARD DATA (continued)

Carcinogenicity? No NTP IARC ACCIB OSHA PROP63

No ingredients listed in this section

Conditions That May Increase Overexposure Potential: The extent of exposure to this product will depend largely on the intensity and duration of product use. Employers who supply this product for use by their employees must determine the conditions under which overexposure can result.

Medical Conditions Generally Aggravated by Exposure: Respiratory disease, pre-existing skin condition

FIRST AID PROCEDURES:

Eye Contact:	Flush eyes with plenty of water. If irritation develops and persists or if injury has occurred, seek medical attention.
Skin Contact:	In case of skin contact, wash thoroughly with soap and water.
Inhalation:	Remove victim to fresh air. Restore breathing if necessary. Seek medical attention immediately.
Ingestion:	Rinse mouth thoroughly with water. Seek medical attention immediately.

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

Actions to Take for Spills: Use wet sweeping or vacuuming. Avoid dust generation.

Waste Disposal: Reclaim if possible. Dispose of via a licensed firm in accordance with federal, state and local regulations (see EPA 40 CFR 261).

Precautions to be Taken in Handling and Storage: Clay hardens if exposed to the air for any length of time. Keep tightly wrapped at normal temperature.

Community Right-to-Know Requirements: SARA 302: Silver, RQ=1000)6 (see 40 CFR 355). SARA 313: Annual release reporting requirements for Silver (see 40 CFR 372.65).

SECTION VIII EMPLOYEE PROTECTION MEASURES

Ventilation: Local ventilation is preferred to meet TLV requirements. General ventilation is acceptable, if exposure is maintained below TLV.

Respiratory Protection: When airborne concentrations exceed TLV or are unknown, use a NIOSH/MSHA approved respiratory for metal fume or dust in accordance with OSHA respiratory protection requirements (29 CFR 1910.134).

Eye Protection: Safety glasses or goggles

Protective Gloves: Wear gloves appropriate for task.

Other Protective Equipment: None Known

Work/Hygiene Practices: Eyewash station and safety shower should be available in areas of use. Wash thoroughly after handling product.

The information herein is given in good faith, but no warranty, express or implied, is made.

TOTAL P.03