

SAFETY DATA SHEET

Product Name: Flame Magik.

Issuing Date: 19 July 2015

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier:

Product Name Flame Magik.
Product Code KK0316 (Imperial brand)

Other Identification Means:

Synonyms None

Use of Substance/Preparation and Restrictions:

Recommended Use: Coloring of flames.
Uses Advised Against: None known.

SDS Supplier Details:

Company Name: Kel Kem Ltd.
Company Identification: 1333 Cornwall Road,
Oakville, Ontario, Canada.
L6J 7T5
Company Emergency Telephone Number Emergency Phone: (24 hours)
Canutec (613) 996-6666 (Collect)

2. HAZARDS IDENTIFICATION

Classification:

This product is considered hazardous under the 2012 OSHA Hazard Communication Standard (29 CER 1910.1200) and WHMIS 2015.

GHS Label Elements, including precautionary statement:

Emergency Overview: Corrosive

Skin Irritation 2 H315
Eye Damage 1 H318
Carcinogenicity 1A H350
STOT Repeated exposure 1 H372

Signal Word (GHS-US/CDN):

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US/ CDN):



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Signal Word (GHS-US/CDN): Danger

Hazard Statements (GHS-US/CDN):

H-315 Causes skin irritation.

H318 Causes serious eye damage.

H350 May cause cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements (GHS-US/CDN):

P 202 Do not handle until all safety precautions have been read and understood.

P 260 Do not breathe dust.

P 264 Wash hands, forearms, and other exposed areas after handling.

P 270 Do not eat, drink or smoke when using this product.

P 280 Wear protective gloves, protective clothing and eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P 305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 If exposed or concerned: Get medical advice/ attention.

P 405 Store locked up.

P 501 Dispose of contents/ container in accordance with local, regional, national ,territorial, provincial, and international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Description: Chemical

Ingredient	CAS#	% by Wt.	Trade Secret
Copper Sulfate	7758-99-8	1-5	*
Silica, amorphous	7631-86-9	30-60	*
Quartz	14808-60-7	2-8	*
Ammonium Chloride	12125-02-9	7-15	*

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First Aid Measures:

Eye Contact:

Remove contacts. Flush with water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin Contact:

Thoroughly wash exposed skin with soap and water. Remove any contaminated clothing and wash before reuse.

Inhalation:

Remove to fresh air. If symptoms persist consult physician.

Ingestion:

Wash out mouth with water. Drink plenty of water. Do not induce vomiting unless directed by medical personal. Never give anything to an unconscious person. Get medical aid.

Notes to Physician:

Treatment based on judgment of attending physician.

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Most Important symptoms and effects, both acute and delayed: No information available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Flood with water for extinguishing agent. CO₂, dry chemical, alcohol resistant foam

Unsuitable Extinguishing Media No information available.

Specific Exposure Hazards Thermal decomposition releases irritating gases.

Hazardous Combustion Products Carbon Oxides.

Explosion Data:

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: None.

Special safety equipment: Self-contained positive pressure breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe mist.

Environmental Precautions:

Environmental Precautions: Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up:

Method for Containment: Contain any spills with dikes to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clear up spills immediately with absorbent and dispose of waste safely.

Procedures for Non-Emergency Personnel:

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

Procedures for Emergency Personnel:

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

Reference to Other Sections: See Heading 8. Exposure Controls and Personal Protection.

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7. HANDLING AND STORAGE

Precautions for Safe Handling:

Handling: Ensure good ventilation/exhaustion at the workplace.

Information about fire and explosion protection: Keep respiratory protective device available.
No special measures required.

Conditions for safe storage, including any incompatibilities:

Requirements to be met by storerooms and receptacles: Store in a cool location.
Protect from humidity and water.
Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
Store receptacle in a well ventilated area.
Keep container tightly sealed.

Specific end use(s): No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters:

Exposure Guidelines Exposure guideline for dust is 15 mg/m³ (OSHA PEL for total dust)
Use local exhaust or dilution ventilation. If dust present use approved dust mask.

Appropriate Engineering Controls:

Engineering Measures Showers. Eyewash Stations. Ventilation Systems.

Individual Protection Measures:

Eye protection: Safety goggles.

Skin protection: Use body-covering impervious clothing.

Hand protection: Chemical resistant gloves.

Respiratory protection: Use local exhaust or dilution ventilation.

Working hygiene: Take usual precautions when handling. Workers should wash hands before eating, drinking or smoking.

Silica, amorphous CAS # 7631-86-9: OSHA PEL (TWA) 6 mg/m³
Quartz CAS # 14808-60-7: USA ACGIH (TWA) 0.025 mg/m³ (respirable fraction)

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USA NIOSH (TWA) 0.05 mg/m³ (respirable fraction)
Copper Sulfate pentahydrate CAS # 7758-99-8: USA NIOSH (TWA) 1.0 mg/m³
Ammonium Chloride CAS # 12125-02-9: USA ACGIH (TWA) 10.0 mg/m³
USA ACGIH (STEL) 20.0 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State	Solid	Odour	None
Appearance	Powder	Odour Threshold	No data available.
Colour	Grey with green speckles.		

<u>Property</u>	<u>Values</u>	<u>Remarks/Method</u>
pH	10.5-11.5	None known
Melting/Freezing Point	No data available	None known
Boiling Point/Range	Not data available	None known
Flash Point	None	None known
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air:		
Upper Limit	No data available	None known
Lower Limit	No data available	None known
Vapour Pressure	No data available	None known
Vapour density	No data available	None known
Specific Gravity	2.0 g/cm ³	
Water Solubility	Soluble in water.	None known
Solubility Other Solvents	No data available	None known
Partition Coefficient:		
n-octanol/water	No data available	None known
Autoignition temperature	No data available	None known
Decomposition	No data available	None known
Temperature		
Kinematic Viscosity	No data available	None known
Dynamic Viscosity	No data available	None known
Explosive Properties	No data available	None known
Oxidizing Properties	No data available	None known

Other Properties:

Softening Point	No data available
VOC Content %	No data available
Particle Size	No data available
Particle Size Distribution	No data available

10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Stable under recommended storage conditions

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Possibility of Hazardous Reactions: None under normal processing
Hazardous Polymerization: Does not occur.
Conditions to avoid: Incompatible agents
Incompatible materials: Oxidizing agents, acids.
Hazardous Decomposition Products: Carbon oxides.
Thermal Decomposition / Conditions to be avoided: Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Product Information

Inhalation Specific test data for substance/mixture not available
Eye Contact Causes serious eye damage.
Skin Contact Causes skin irritation.
Ingestion Specific test data for substance/mixture not available

Component Information:

Chemical Name	Oral/ Rat LD50	Dermal/ Rabbit LD50	Inhalation/Rat LC50 1Hr
Silica,amorphous	>5,000 mg/kg	>5,000 mg/kg	>2.2 mg/l
Trisodium phosphate	7400 mg/kg	>7940 mg/kg	No data available
Dodecahydrate			

Information on Toxicological Effects:

Symptoms

Delayed/Immediate/Chronic Effects from short and long term exposure:

Sensitization	Not classified.
Mutagenic Effects	Not classified.
Carcinogenicity	May cause cancer.
Reproductive Toxicity	Not classified.
STOT- Single Exposure	Not classified.
STOT Repeated exposure	Causes damage to organs through prolonged or repeated exposure. May cause cancer. May cause damage to organs through repeated or prolonged exposure to crystalline silica. Lung damage in the form of silicosis.
Chronic Toxicity	Causes damage to organs through repeated or prolonged exposure.
Target Organ Effects	

Silica Amorphous IARC Group 3
Quartz IARC Group 1, NTP-Known Human Carcinogens.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not classified
Persistence and Degradability: No information available
Bioaccumulative Potential: No information available

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Mobility in Soil: No information available
Other Adverse Effects: No information available
Other Information: Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

Waste treatment Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste. If chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Disposal Methods

Dispose of contents/containers in accordance with local regulations.

Contaminated Packaging: California Hazardous Waste Codes

Not available.

Ecology – Waste Materials:

Avoid release to the environment.

13. TRANSPORT INFORMATION

This is a mixture. One of the ingredients, Copper Sulfate Pentahydrate, is subject to TDG and DOT reporting. The reportable quantity of the mixture is 66 lbs. The information that follows is for that ingredient only, not the mixture.

DOT Status: Exempt from transport regulations – below Reportable Quantity 10 lbs.

Hazard Class..... 9

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Technical Shipping Name: (Contains Copper sulfate pentahydrate)

ID Number..... UN3077

Packing Group.... III

TDG Status: Limited Quantity (see Note below)

Hazard Class..... 9

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Technical Shipping Name: (Contains Copper Sulfate pentahydrate)

ID Number..... UN3077

Packing Group.... III

Note: The limited quantity for UN3077 is 5 Kg, and the exemption for limited quantity reads as follows:

Regulations do not apply to Ltd. Qty. if they

-are packaged and secured to prevent leakage

-have a max. gross mass of 30 kg.

-inner packages do not exceed 5 kg

-are marked "Limited Quantity"

-are in transport by road, rail or ship (domestic trip)

If there is more than 500 kg in a single shipment, it must be documented

15. REGULATORY INFORMATION

International Inventories:

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TSCA No
DSL No

TSCA – United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List.

Canadian Regulations:

Canadian WHMIS Classification:

Class D 2 A Very toxic material causing other effects.

Class D 2 B Toxic material causing other toxic effects.

Class E Corrosive material.

US Federal Regulations:

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). Product status in terms of the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories:

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

Product status regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA–Reportable Qtys.	CWA–Toxic Pollutants	CWA–Priority Pollutants	CWA–Hazardous Substances
Copper Sulfate pentahydrate	10 lbs			

CERCLA

Product status under the Comprehensive Environmental Response Compensation and Liability Act (CERLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Copper Sulfate pentahydrate	10 lbs		10 lbs

US State Regulations:

California Proposition 65

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Warning: This product contains chemicals known to the state of California to cause cancer.

US State Right-To-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Copper Sulfate pentahydrate	X	X	X	X	X
Silica,amorphous Quartz	X	X	X	X	X

	Health Hazard	Flammability	Instability	Physical Hazard	Physical and Chemical Hazards – Personal Protections
NFPA	3	0	0	None	B
HMIS	3	0	0	None	B

HMIS III Rating

Health: 3

Flammability: 0

Physical: 0

Personal Protection: B

16. OTHER INFORMATION

Prepared By: Lizmar
32 Louisa Street
Etobicoke, Ontario, Canada M8V 2K6

Issuing Date: July 19, 2015

Revision Date: None

Revision Note: None

Disclaimer:

The manufacturer warrants that this product conforms to its standard specification when used according to direction. To the best of our knowledge the information contained herein is accurate. However we do not assume accuracy or completeness of the information contained herein.

Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

End of Safety Data Sheet