

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Fireworks

FORMULA : $KClO_4$, S, $Ba(NO_3)_2$, Al-Mg, $(C_2H_3Cl)_n$

SYNONYMS : Oxidiser agents typically used are potassium perchlorate and copper oxide. Fuels typically used may be Sulfur and Mg/Al alloy. Polyvinyl chlorate is usually used as kind of bond.

MSDS NUMBER : NA **EPA Reg. No.** : -- **DATE:** NA

Hunan Vanguard Business Development Co.,LTD
Addr.: International Fireworks Trade Tower, 704,118 Liuyang Blvd, Liuyang City, Hunan, China (Zip code:410300)
86-731-83338725

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>CAS NO.</u>	<u>ACTIVE CONTENT</u>
POTASSIUM PERCHLORATE		35%
SULFUR		13.5%
Barium Nitrate		15 %
Mg/Al alloy		24%
POLYVINYL CHLORIDE		12.5%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE AND ODOUR : All chemical composition is contained in a cardboard casing

WARNING STATEMENTS : No Smoking, Keep away from fire! Handle with care. Do not drop or throw. Place upright. If exposed to fire, articles will explode.

POTENTIAL HEALTH EFFECTS

LIKELY ROUTES OF EXPOSURE : NA

EYE CONTACT : NA

SKIN CONTACT : NA

INGESTION : NA

INHALATION : NA

4. FIRST AID MEASURES AND ANTIDOTE

If swallowed, wash out mouth with water provided person is conscious. Call a physician. If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. In case of contact immediately wash skin with soap and water.

ANTIDOTE: NA

5. FIRE FIGHTING MEASURES**FLASH POINT** : NA**AUTOIGNITION TEMPERATURE** : NA**HAZARDOUS PRODUCTS OF COMBUSTION** : NA**EXTINGUISHING MEDIA** : DO NOT attempt to fight fire in the vicinity of other fireworks.**UNUSUAL FIRE AND EXPLOSION HAZARDS** : If exposed to fire, articles will explode and propel burning projectiles. There is a risk of explosion if large quantities of fireworks are involved in a fire.**FIRE FIGHTING EQUIPMENT:** In the case of a small amount on fire apply as much water as possible from as much distance as practical. Larger fires involving more than one carton require large volumes of water and extra care from fumes and debris. Evacuate fire area IMMEDIATELY and seek shelter. Follow emergency evacuation plan.**6. ACCIDENTAL RELEASE MEASURE**

NA

7. HANDLING AND STORAGE

No Smoking, Keep away from fire! Handle with care. Do not drop or throw. Place upright. If exposed to fire, articles will explode.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**EYE PROTECTION** : NA**SKIN PROTECTION** : NA**RESPIRATORY PROTECTION** : None required when handling finished fireworks**VENTILATION** : NA

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: All chemical composition is contained in a cardboard casing
Odour	: All chemical composition is contained in a cardboard casing
Density	: NA
Vapour Pressure	: NA
Vapour Density (Air=1)	: NA
Melting Point	: NA
Solubility in Water	: Slight

10. STABILITY AND REACTIVITY

STABILITY : Stable

MATERIALS TO AVOID : Do not store with any other Dangerous Goods except articles (not substances) of class 1, Compatibility Groups C,D,E,G and S. DO NOT allow fireworks to get soaking wet.

HAZARDOUS DECOMPOSITION PRODUCTS : When ignited the following major decomposition products may form: carbon dioxide, carbon monoxide, oxides of nitrogen, oxides of sulfur, heavy metal compounds and other toxic substances. Avoid breathing smoke from fireworks.

HAZARDOUS POLYMERIZATION : Will not Occur

11. TOXICOLOGICAL INFORMATION**11.1. Acute oral toxicity**

NA

11.2. Acute dermal toxicity

NA

11.3. Chronic Toxicity

NA

11.4 Inhalation toxicity

NA

11.5 Eye irritation

NA

11.6 Toxicity to birds

NA

11.7 Fish toxicity

NA

11.8 Toxicity to bees

NA

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: NA

13. DISPOSAL CONSIDERTIONS

Cleanup and disposal in accordance to local environmental regulations

Metal Drums: NA

Plastic / HDPE Bags: NA

14. TRANSPORT INFORMATION

DOT (Department Of Transportation)

DOT Proper Shipping Name : Fireworks

DOT Hazard Class / I.D. No. : 1.4G

DOT Label : Class 1

HAZCHEM NO. :

UN NO. : 0336

TREM CARD. : NA

