

**MATERIAL SAFETY DATA SHEET**

<b>1 PRODUCT AND COMPANY IDENTIFICATION</b>	
1.1	PRODUCT NAME: Samaco Safety Matches (all sizes)
1.2	COMPANY IDENTIFICATION: Arctic Hayes Ltd No11. Glover Way Leeds, England LS11 5JP
1.3	EMERGENCY CONTACT NUMBER: Tel: 0113 271 5245 Fax: 0113 271 5779
<b>2 COMPOSITION/INFORMATION ON INGREDIENTS</b>	
2.1	COMPOSITION/ INFORMATION ON INGREDIENTS:  The major component of the match is Potassium chlorate and the minor ingredients are silicate, animal glue, sulphur and potassium dichromate. The Main ingredient in the friction surface is phosphorous, resin ground glass and manganese dioxide.
<b>3 HAZARDS IDENTIFICATION</b>	
3.1	HAZARD IDENTIFICATION:  Flammable solid. Ignites readily and burns fiercely the combustion of large quantities of the product gives rise to significant quantities of irritant smoke with flames. Two ingredients (potassium chlorate and potassium Bichromate) in the matches are specifically classified as hazardous .The qty involved suggest that there is a minimal hazard in their handling. The product is classified as dangerous goods..
3.2.	RISK PHRASES:  Contact with combustible material may cause fire. Harmful by inhalation, in contact with the skin and if swallowed.
3.3.	SAFETY PHRASES:  Keep locked up and out of the reach of children Keep the package tightly closed in a cool well ventilated place Keep away from food, drink and animal feeding stuffs Keep away from sources of ignition-No smoking In case of fire do not breathe fumes.
<b>4 FIRST AID MEASURES</b>	
4.1	FIRST AID MEASURES:  Exposure to the smoke may cause irritation to the eyes and throat. Move the patient to fresh air. Symptoms that may arise if the compound is mishandled are:-  Ingestion :Symptoms: Discomfort. Do not induce vomiting. Give water to the patient.  Eye contact: Symptoms: Irritation. Immediately flush the eyes with copious water. Eyelids to be

held open. If irritation persists seek medical advice.

Skin contact: Symptoms: Irritation. Wash the exposed area with pious amount of soap and water. If irritation occurs seek medical advice.

Inhalation: Symptoms: Throat irritation, shortness of Breath. Remove to fresh air. If irritation persists seek medical assistance.

## **5 FIRE FIGHTING MEASURES**

### **5.1 EXTINGUISHING FIGHTING MEASURES:**

Ignites readily. Oxidising agent will assist combustion. Use large volumes of water as a spray or fog, avoid use of water jet. Contain run-off (carbon monoxide, sulphur and phosphoric oxides) may be produced in such reactions.

## **6 ACCIDENTAL RELEASE MEASURES**

### **6.1 ACCIDENTAL RELEASE MEASURES:**

Remove ignition sources. Ensure suitable personal protection is worn during removal of a spillage involving large quantity of product. This means wearing eye protection and chemically resistant gloves.

## **7 HANDLING AND STORAGE**

### **7.1 HANDLING AND STORAGE:**

Do not breathe smoke. Wash hands before meals and after use. When using do not eat, drink or smoke.

Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Store in manufacturer's approved packaging in a well ventilated dry area away from sources of heat and direct sunlight.

## **8 EXPOSURE CONTROLS/PERSOANL PROTECTION**

### **8.1 EXPOSURE CONTROLS AND PERSONAL PROTECTION:**

None required under normal conditions of use. Should it be necessary to enter a heavily smoke laden area protective respiratory equipment and Eye protection must be used.

## **9 PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1 PHYSICAL AND CHEMICAL PROPERTIES:**

The match comprises o f the main burning composition dipped onto the Match splint and then tipped with a dark brown striker tip to facilitate Ignition.  
The strikers and friction discs are per not reactive. However when struck the combination is highly reactive.

## **10 STABILITY AND REACTIVITY**

### **10.1 STABILITY AND REACTIVITY:**

Stability: The item is stable under normal conditions

Solubility: The item is not affected by short term immersion in water. Over the long term the match composition is soluble.

Reactivity: Ignites readily. Organic solvents will likely free up the phosphorous and sulphur present enabling them to slowly oxidize in the atmosphere.

Chemical incompatibilities; Organic solvents, strong acids and alkalis.

## **11 TOXICOLOGICAL INFORMATION**

### 11.1 TOXICOLOGICAL INFORMATION:

No adverse health effects are expected if the matches are handled carefully. If mishandling occurs consult first aid measures.

## **12 ECOLOGICAL INFORMATION**

### 12.1 ECOTOXICITY:

On contact of the striker match with the abrasive friction surface the reaction products will include pungent and corrosive fumes of Phosphoric pentoxide and sulphur dioxide. The ecological assessment is calculated from data available on the Components of the formulation.

\*Harmful to aquatic organisms

\*Unburnt composition is non selectively toxic to plants

\*Not readily biodegradable.

## **13 DISPOSAL CONSIDERATIONS**

### 13.1 DISPOSAL CONSIDERATIONS:

Applies to unburned product. Do not contaminate ponds, waterways or ditches with chemical. Disposal should be in accordance with local state or national legislation.

## **14 TRANSPORT INFORMATION**

### 14.1 TRANSPORT:

Class: 4.1

UN No.1944

Proper shipping name: Matches safety.

Packing group: III