








Supplement to Fire Colours Challenge Card

Sodium Chloride	Table salt. This is an edible food stuff, with negligible risk.	Orange flames 
Potassium sulfate	Fertiliser available in hardware stores and nurseries; also called sulphate of potash. Make sure you read the safety guidelines on the back of the packet, wear safety gloves and goggles.	Purple flames 
Potassium chloride	Salt substitute eg Diet Rite Lite Salt from supermarket. This is an edible food stuff, with negligible risk. Wash hands after use.	Purple flames 
Copper sulfate or copper chelate	A specialised fertiliser, called copper sulfate; or copper lignosulfonate available in hardware stores and nurseries; also called copper chelate). Eg, Manutec 500g Copper Sulphate Soluble available from Bunnings. Make sure you read the safety guidelines on the back of the packet, wear safety gloves and goggles.	Blue flames 
Magnesium sulfate	Commonly called Epsom Salts, available in supermarkets. This material is used in bath salts to ease achy muscles. Wear safety gloves and goggles, and wash hands after use.	White flames 
Flour	Flour tossed carefully into the fire. This is about increasing surface area to volume, causing quick combustion, which explains how it flares up when thrown into a fire. Remember to wear clothing made of natural fibres, ie cotton, not your Scout uniform which is made of synthetic materials.	Flare ups 
Sugar	Throw in some sugar into the fire. This adds additional fuel to the fire. Remember to wear clothing made of natural fibres, ie cotton, not your Scout uniform which is made of synthetic materials.	Creates sparks 
Borax (sodium tetraborate) You MUST follow all safety instructions carefully.	Available in supermarkets. As per Safety Data Sheet: https://bit.ly/3A4NVji P201 Obtain special instructions before use. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P261 Avoid breathing dust/fumes. The more serious effects outlined in the SDS are long-term effects, which are not likely to occur from running the activity once.	Green flames 