



## MATERIAL SAFETY DATA SHEET

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Issue Date: 10/01/2014

### **I. PRODUCT IDENTIFICATION**

**Trade Name(s) (As Labeled):** Zaffronel®.

**Saffron Powder Extract 2% : ZAF2**

**Active Ingredients:** Crocin, Safranal

**Supplier's Name:** Nature\*4\*Science Inc.

**Complete mailing address:** 5753-G Santa Ana Cyn Rd # 573  
Anaheim Hills, CA.92807-3296

**Emergency phone number:** 714-223-0647 or 714-234-7760

**Origin:** Spain

### **II. HAZARDOUS INGREDIENTS**

Chemical Names	CAS Numbers	Percentage Exposure	Limits in Air	Chemical Formula
CROCUS SATIVUS L	42553-65-1/116-26-7	OSHA PEL	(Indicate units)N/A	C44H64O24

### **III. PHYSICAL/CHEMICAL CHARACTERISTICS**

Vapor density (air = 1) : <5%      Melting point or range, °F:      N/A

Density:      0.4-0.7g/ml      Boiling point or range, °F:      N/A

Solubility in water: Yes      Evaporation rate (butyl acetate = 1):      N/A

Vapor pressure, (mm Hg at 20°C): N/A

Appearance & odor: Dark orange color powder with characteristic odor & taste .

### **VI. FIRE AND EXPLOSION HAZARD DATA**

Flash point, °F (give method):      N/A

Auto ignition temperature, °F:      N/A

Flammable limits in air, % by volume:

Lower (LEL):      N/A      Upper (UEL):      N/A

Fire extinguishing materials:

water spray       carbon dioxide      Other: \_\_\_\_\_  
 foam       dry chemical      \_\_\_\_\_

Special fire-fighting procedures: N/A      Unusual fire and explosion hazards: N/A

### **V. HEALTH HAZARD INFORMATION**

**SYMPTOMS OF OVEREXPOSURE (for each potential route of exposure)**

Inhaled:      May cause respiratory tract irritation.

Contact with skin:      May cause skin irritation.

Contact with eyes:      May cause irritation.

Absorbed through skin:      N/A

Swallowed:      Slight uncomfortable sensation.

**HEALTH EFFECTS OR RISKS FROM EXPOSURE****Acute:** Irritation of skin, eyes, and lungs.**Chronic:** N/A**Reproductive:** N/A**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

Conditions associated with eyes, skin, and lungs.

**POTENTIAL OR SUSPECTED CANCER AGENT?** **No** This product's ingredients are not found in the list below. **Yes** The ingredients below are regulated or listed as potential cancer agents by the indicated agency.

CA employers using Cal/OSHA regulated carcinogens must register with Cal/OSHA

**VI. FIRST AID – EMERGENCY PROCEDURES****Eye Contact:** Flush eyes with copious amounts of water (2 minutes, wait 1 minute, then another two minutes). Contact physician if exposure and/or irritation is severe.**Skin contact:** Wash with soap and water.**Inhaled:** If respiratory tract irritation occurs, seek well ventilated area.**Swallowed:** Consume water.**VII. PRECAUTIONS FOR SAFE HANDLING & USE****Spill response procedures (include employee protection measures):**

Clean up spilled product using broom &amp; dust pan then rinse thoroughly with water. (Orange color will stain).

**Preparing wastes for disposal (container types, neutralization, etc.):**N/A**Note:** Dispose all wastes in accordance with federal, state, and local regulations.**VIII. CONTROL MEASURES****Ventilation and engineering controls:** Well ventilated work area with dust control.**Respiratory protection (type):** Dust mask for handling powder.**Eye protection (type):** Safety glasses for handling powder.**Gloves (specify material):** Rubber gloves for handling powder.**Other clothing and equipment:** Lab Coat**Work and hygienic practices:** Clean, dry, environment**Handling & storage requirements:** Store in cool, dry area away from direct sunlight.**Other precautions:** N/A**IX. TRANSPORTATION INFORMATION****Proper Shipping Name:** Safe with all methods of Transportation-Not regulated for highway and/or Transportation**UN/NA :** N/A**DOT Hazard Class:** Not Determined**Dot Hazardous Materials:** N/A**Emergency Response Guide#:** Not Determined**Packaging Group:** Not Determined