SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION Trade Name(s) (As Labeled):

Zaffronel® CROCUS SATIVUS DRY EXTRACT 2%

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

Mailing address: 5753-G E. Santa Ana Cyn Rd # 573 Anaheim Hills, CA.92807-3296

Emergency phone number: 714-223-0647 & 714-234-7760

Manufacturer's Name: Select Botanicals, S.L.

Complete Mailing address: C/Bori I Fontesa, #49

08017 Barcelona- Spain **Source:** Spain

Date Revised: 08/20/2025

2. HAZARDOUS INGREDIENTS

Chemical Names	CAS No	EC No	% Exposure	Limits in Air
Other	84604-17-1	283-295-0	OSHA PEL	Indicate units) N/A

3. PHYSICAL/CHEMICAL CHARACTERISTICS/ COMPOSITION

Vapor density (air = 1): N/A **Melting point or range, °F: <25°C**

Specific gravity: not determined **Boiling point or range, °F: N/A**

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

Vapor pressure, (mm Hg at 20°C): N/A

Appearance & odor: orange/yellow colored powder with odor characteristic of saffron

4. HEALTH HAZARD INFORMATION/First aid measures – Emergency procedures

SYMPTOMS OF OVEREXPOSURE (for each potential route of exposure)

Inhaled: May cause respiratory tract irritation. Assure fresh air breathing. Rest. If you don't feel well, seek medical advice.

Contact with skin: May cause skin irritation. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

Contact with eyes: May result in a burning/stinging sensation. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking, tears or redness persist.

Absorbed through skin: N/A

Swallowed: May produce an allergic reaction. Rinse mouth. Seek medical advice immediately and show container or label

In case of reactions described in hazards identification or other severe, immediate or persisting symptoms seek medical advice and call the nearest poison center. Show the label and this safety data sheet

Hazard pictograms (GHS-US) :

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Conditions associated with eyes, skin, and lungs. See instructions above

POTENTIAL OR SUSPECTED CANCER AGENTS

X_No This product's ingredient is not found in cancer agents list.

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Note: California employers using Cal/OSHA-regulated carcinogens must register with Cal/OSHA

5. FIRE AND EXPLOSION HAZARD DATA/ FIRE FIGHTING MEASURES

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:
__X__water spray _____carbon dioxide _____Other: _____
_____foam _____dry chemical _____
Special fire-fighting procedures: N/A Unusual fire and explosion hazards: N/A

6. PRECAUTIONS FOR SAFE HANDLING & USE/ ACCIDENTAL RELEASE MEASURE

Spill response procedures (include employee protection measures):
Clean up spilled product using broom & dust pan.
Preparing wastes for disposal (container types, neutralization, etc.):N/A
Note: Dispose all wastes in accordance with federal, state, and local regulations.

7. HANDLING AND STORAGE

Personal protection:	**Avoid all unnecessary exposure. Ensure prompt removal from eyes, skin and clothing.**
Technical protective measures:	**Material should be handled in a laboratory hood whenever Possible**
Handling	**Handle with accordance with good industrial hygiene and safety procedure**
Storage	**In an air-tight container, protected from light and stored at controlled room temperature.**
Storage – away from	**All heat sources, including direct sunlight. Open flame. sources of ignition, Sparks, (Incompatible materials.)**

8. CONTROL MEASURES/ EXPOSURE CONTROL/ PERSONAL PROTECTION

Ventilation and engineering controls: Well ventilated work area with dust control.
Respiratory protection: Dust mask for handling powder.
Personal protective equipment: Fireproof clothing. Sufficient ventilation: Wear respiratory protection. Protective goggles. Gloves.

Other clothing and equipment: Lab coat
Work and hygienic practices: Clean, dry, environment

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical formula: (Crocin) $C_{44}H_{64}O_{24}$
Molecular weight/Molar Mass: 328.4gcm^{-3}
Physical State at 20 °C: Powder

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9. PHYSICAL AND CHEMICAL PROPERTIES(CONT)

Color: orange/yellow
PH value: >3.0
Melting point [°C] : <25°C
Boiling point [°C]: No data available.
Solubility in water: yes
Solubility: No data available
Flash point [°C]: No data available.
Log P octanol/ water at 20°C: No data available.

10. STABILITY AND REACTIVITY

Stability and reactivity: Stable under normal conditions.
Materials to avoid: No data available
Conditions to avoid: temperature >30°C, open flame & source of ignition. Keep away from heat & direct sunlight
Hazardous decomposition products: NONE
Hazardous reactions: None under normal conditions.
Hazardous polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

RTECS nr: No data available.
Rat oral LD50 [mg/kg]: No data available.
Rabbit dermal LD50 [mg/kg]: No data available.
Rat inhalation: LC50 [mg/L/4h]: No data available.
Acute toxicity: Exposure may produce an allergic reaction
Chronic toxicity: No data available.
Sensitization: No data available.

12. ECOLOGICAL INFORMATION

Ecological effects information
LC50-96 Hour-fish [mg/L]: No data available.
EC50-48 Hour- Daphnia magna [mg/L]: No data available.
IC50-72h- Algae [mg/L]: No data available.
Biodegradation [%]: No data available.
Persistence- degradability: Minimally biodegradable.
Log P octanol/ water at 20°C: No data available.
Bio accumulative potential: No data available.

13. DISPOSAL CONSIDERATIONS

General: Dispose of this material and its container at hazardous or special waste collection point.
Dispose in a safe manner in accordance with local/ national regulations.

14. TRANSPORT INFORMATION

General information: Not relevant to RID/ADR/IMDG/ICAO-TI/IATA-DGR
14.1. Special precautions for user: not hazardous to :
RID/ADR,GGVS/GGVE/ADNR,IMDG,ICAO-TI/IATA-DGR

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14.2 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

15. REGULATORY INFORMATION

Symbol(s): None.
R Phrase(S): None.
S Phrase(s): S22: Do not breathe dust.
S36/37: Wear suitable protective clothing and gloves.

16. OTHER INFORMATION

Further information: Revision see below.

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