

## SAFETY DATA SHEET

Originally Prepared: 09/20/2022

Version: 01

### 1. IDENTIFICATION

1.1 Product Identification: Citral Natural

Product SKU(s):

ABXIS0013H, ABXIS0013G, ABXIS0013E, ABXIS0013C, ABXIS0013A, ABXIS0013D, ABXIS0013F, ABXIS0013Y, ABXIS0013X

CAS NUMBER: 5392-40-5

EC NUMBER(EINECS): 226-394-6

E NUMBER: N/A

FEMA NUMBER: 2303

1.2 Product Use

Concentrated aromatic and flavor ingredient which may be used in flavor and fragrance compounds according to legal and IFRA or FEMA GRAS/FDA guidelines

1.3 Company Identification

Abstrax Tech Inc. 2026 Cecilia Circle, Corona, CA. 92881, USA; 1-562-294-5805

[www.abstraxtech.com](http://www.abstraxtech.com)

SDS inquiries can also be submitted to [regulatory@abstraxtech.com](mailto:regulatory@abstraxtech.com)

1.4 Emergency Telephone Number

**USA** 1-562-294-5805 (only during office hours, 9:00am – 5:00pm PST)

### 2. HAZARD(S) IDENTIFICATION

2.1 Classification of the Product:

Aspiration hazard (Category 1), H304

Skin corrosion/irritation (Category 2), H315

Sensitization, Skin (Category 1), H317

Serious eye damage/eye irritation (Category 2A), H319

Hazardous to the aquatic environment, acute hazard (Category 2), H401

Hazardous to the aquatic environment, long-term hazard (Category 3), H412

Pictogram:



Signal Word: Warning

Hazard Statement(s):

H304 May be fatal if swallowed and enters airways

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H401 Toxic to aquatic life

H412 Harmful to aquatic life with long lasting effects

Precautionary Statement(s):

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

P264 Wash skin thoroughly after handling

P264+P265 Wash hands (and...) thoroughly after handling. Do not touch eyes

P272 Contaminated work clothing must not be allowed out of the workplace

P273 Avoid release to the environment

P280 Wear protective gloves/ eye protection/ face protection

P301+P316 IF SWALLOWED: Get emergency medical help immediately

P302+P352 IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing

P321 Specific treatment (see supplemental first aid instructions on this label)

P332+P317 If skin irritation occurs: Get medical help

P331 Do NOT induce vomiting

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention  
P337+P313 If eye irritation persists: Get medical advice/ attention  
P337+P317 If eye irritation persists: Get medical help  
P362 Take off contaminated clothing and wash before reuse  
P362+P364 Take off contaminated clothing and wash before reuse  
P405 Store locked up  
P501 Dispose of contents/ container to an approved waste disposal plant

## 2.3 Other Hazards

No Data Available

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Citral Natural

Molecular Formula: C<sub>10</sub>H<sub>16</sub>O

CAS NUMBER: 5392-40-5

EC NUMBER(EINECS): 226-394-6

## 4. FIRST-AID MEASURES

### 4.1 General First-Aid Instructions

**INHALATION:** If headache, irritation, nausea, or drowsiness occurs, move patient to a place with clear air. Ventilate. Obtain medical advice if irritation persists.

**SKIN CONTACT:** Remove contaminated clothing. Wash with water and soap. Obtain medical advice if irritation persists. An eyewash and safety shower should be readily available.

**EYE CONTACT:** Check for and remove any contact lenses. Flush opened eye (including under eyelids) with running water for 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eyes and lids. Do not allow person to rub eyes or keep eyes closed. Obtain medical advice if irritation persists. An eyewash and safety shower should be readily available.

**INGESTION:** If patient is conscious and can swallow, administer lots of water to dilute substance. Do not induce vomiting. Call a poison control center and obtain medical advice if irritation persists.

**OTHER:** Personal protective equipment (PPE) for first aid responders is recommended; Chemical resistant clothing, boots and gloves.

### 4.2 Most Important Symptoms and Effects, Acute and Delayed

May irritate eyes, lungs, skin and stomach. Call a poison control center and obtain medical advice if irritation persists after following above instructions.

### 4.1 Immediate Medical Care and Special Treatment

Call a poison control center and obtain medical advice if irritation persists.

## 5. FIRE-FIGHTING MEASURES

5.1 SUITABLE EXTINGUISHING MEDIA: CO<sub>2</sub>, Foam, Dry Chemicals, Water Spray

NON-SUITABLE EXTINGUISHING MEDIA: Do not use a heavy water stream.

5.2 SPECIFIC FIRE AND EXPLOSION HAZARDS: Heat may generate irritating or corrosive vapors. Product is not considered to be a fire or explosion hazard.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide, fumes.

5.3 SPECIAL PROTECTIVE EQUIPMENT OR PRECAUTIONS FOR FIREFIGHTERS: Exercise caution when fighting any chemical fire. Use protective clothing and breathing equipment appropriate for surrounding fire. Prevent contact with skin and eyes.

## 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Keep away from heat, sparks, open flames, hot surfaces. No smoking. Ventilate site. Evacuate unnecessary personnel. Wear safety glasses or goggles, rubber chemical resistant gloves, and apron when handling chemical. Pressure demand air supplied respirators should always be worn when the airborne concentration of the contaminant or oxygen is unknown. Otherwise, wear NIOSH approved respiratory protection and other personal protective equipment as appropriate for the potential exposure hazard. Do not get into eyes, on skin, or clothing.

**METHODS AND MATERIALS FOR CONTAINMENT:** Contain large spills to prevent migration and entry into sewers or streams.

**METHODS AND MATERIALS FOR CLEAN UP:** Shovel up material and place in approved disposal container. Dispose of in accordance with current local, state, and federal laws and regulations. Flush the area with warm water. Small spills may be flushed to the drain with excess water or absorbed with a damp cloth.

## 7. HANDLING AND STORAGE

### 7.1 Handling

Maintain good ventilation. Consistent with good hygiene and lab practices, wear safety glasses or goggles, rubber gloves and apron when handling. Where aerosols of chemical are created, use suitable dust mask or breathing apparatus. Do not eat, drink or smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Avoid prolonged or repeated exposure to chemical. Wash thoroughly after handling.

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

#### 7.2 Storage

Keep container tightly sealed. Store in a dry, cool place. Protect from light, avoid uncoated metal containers, and keep air contact to a minimum. Incompatible with strong oxidizing agents, acids and bases. Avoid extended storage by using as soon as possible within designated shelf life.

#### 7.3 Specific Uses

For use in products in which added flavoring is permitted. It is the user's responsibility to ensure that the conditions and possible uses of this flavor chemical conform to local laws and regulations.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Exposure Limit Values: TWA

Control Parameters: 5ppm

#### 8.2 Exposure Controls

**VENTILATION AND OTHER ENGINEERING CONTROLS:** Normal ventilation is generally adequate. Keep airborne concentration of flavor chemical low by enclosing production processes whenever possible.



**EYE:** Wear protective glasses, goggles or face shield. An eyewash and safety shower should be readily available.

**HAND:** Wear protective chemical resistant gloves during manufacture or handling of this flavor chemical.

**SPECIAL CLOTHING:** Special clothing is not normally necessary when manufacturing or handling this flavor chemical within a closed system. Wear chemical resistant full body coveralls whenever there is a possibility of splash or appreciable contact with vapors during manufacturing or handling.

**OTHER PROTECTIVE DEVICES AND PROCEDURES:** Follow good manufacturing practice.

**RESPIRATORY:** Work in well ventilated area. If irritation is experienced, approved respiratory protection should be worn.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 General Information

**APPEARANCE:** Clear to light yellow liquid

**ODOR:**

**ODOR THRESHOLD:** Data not available

#### 9.2 Important Health, Safety and Environmental Information

**pH:** Data not available

**MELTING POINT/FREEZING POINT:** < -10 °C (< 14 °F)

**BOILING POINT:** 230 °C (446 °F)

**FLASH POINT:** 98 °C (208.4 °F)

**FLAMMABILITY:** Non-flammable (100%)

**EXPLOSIVE PROPERTIES:** Non-explosive (100%)

**OXIDISING PROPERTIES:** Non-oxidizing (100%)

**VAPOR PRESSURE:** 4.6 Pa at 20 °C (68 °F)

**RELATIVE DENSITY:** 0.89 at 20 °C (68 °F)

**SOLUBILITY:** Data not available

**WATER SOLUBILITY:** 420 mg/L at 25 °C (77 °F)

**PARTITION COEFFICIENT:** 2.76 at 25 °C (77 °F)

**VISCOSITY:** 1.67 mm<sup>2</sup>/s at 40 °C (104 °F)

**VAPOR DENSITY:** Data not available

**EVAPORATION RATE:** Data not available

#### 9.3 Other Information

**MISCIBILITY:** Data not available

**FAT SOLUBILITY (VEGETABLE OIL):** Data not available

**CONDUCTIVITY:** Data not available

**AUTO-IGNITION TEMPERATURE:** 225 °C (437 °F)

**DECOMPOSITION TEMPERATURE:** Data not available

**VOC CONTENT:** Data not available

### 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

Stable and non-reactive under normal conditions of use and storage.

#### 10.2 Chemical Stability

May degrade in light. Avoid extended storage by using as soon as possible within designated shelf life.

#### 10.4 Conditions to Avoid

Keep cool and avoid excessive heat, humidity, open flames, sparks or other sources of ignition. Avoid opening in poorly ventilated spaces.

#### 10.5 Materials to Avoid

Avoid strong acids, bases, and oxidizing agents.

#### 10.6 Hazardous Decomposition Products

No known hazardous materials produced in dangerous amounts upon decomposition. Thermal decomposition generates potentially irritating vapors.

### 11. TOXICOLOGICAL INFORMATION

Acute Toxicity (Oral, Dermal, Inhalation Exposure):

LD50 Oral - Rat - male and female - 6,800 mg/kg

LD50 Dermal - Rat - male and female - > 2,000 mg/kg

Effects of Immediate, Delayed or Chronic Effects from Short- and Long-Term Exposure: May cause immediate irritation to eyes, stomach, skin and/or lungs. Prolonged exposure may increase irritation. Data is not available regarding long-term effects of repeated exposures.

International Agency for Research on Cancer (IARC) Monograph: No Data Available

OSHA Carcinogen: No Data Available

NIOSH Carcinogen: No Data Available

National Toxicology Program (NTP) Report on Carcinogens (ROC): No Data Available

### 12. ECOLOGICAL INFORMATION

#### 12.1 Ecotoxicity

Not established.

Not established.

#### 12.2 Persistence and Degradability

Not established.

#### 12.4 Mobility in Soil

Not established.

#### 12.3 Bioaccumulative Potential

#### 12.5 Other Adverse Effects

Not established. Avoid release into the environment.

### 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with Federal, State, County, and local regulations. Avoid any spillage from entering waterways, drains or sewage as this product has unknown ecotoxicity.

Containers should be either reconditioned by certified firms or properly disposed of by approved firms. Disposal of containers should be in accordance with applicable laws and regulations. "Empty" drums should not be given to individuals. Misuse of empty containers can be hazardous. Empty containers can be hazardous if used to store toxic, flammable, or reactive material. Cutting or welding of empty containers may cause fire, explosion, or toxic fumes from residues. Do not pressurize or expose to open flame or heat. Keep containers closed and drum bungs in place.

### 14. TRANSPORT INFORMATION

GHS CATEGORY:

GHS08 – Health Hazard

GHS07 – Irritant

### 15. REGULATORY INFORMATION

UNITED STATES OF AMERICA (USA): Approved for use in a regulation of the Food and Drug Administration (FDA) or regarded as safe by a reliable industry association.

**CALIFORNIA PROPOSITION 65:**

No Data Available

### 16. OTHER INFORMATION

16.1 VERSIONS OF THIS DOCUMENT DATED PREVIOUS TO THE REVISION DATE ON THIS DOCUMENT ARE NO LONGER VALID.

16.3 THE ABOVE INFORMATION WAS PREPARED FROM CURRENT AND REPUTABLE SOURCES. HOWEVER, THE DATA IS PROVIDED WITHOUT ANY WARRANTY, EXPRESSED OR IMPLIED, REGARDING ITS CORRECTNESS OR ACCURACY.

16.5 TO AVOID RISKS TO HUMAN HEALTH AND THE ENVIRONMENT, COMPLY WITH THE INSTRUCTIONS FOR USE.

16.6 THE INFORMATION CONTAINED IN THIS DATA SHEET DOES NOT CONSTITUTE AN ASSESSMENT OF WORKPLACE RISKS. IT IS THE USERS' RESPONSIBILITY TO ENSURE SAFE CONDITIONS FOR HANDLING, STORAGE AND DISPOSAL OF THIS FLAVOR CHEMICAL AND TO ASSUME LIABILITY FOR LOSS, INJURY, DAMAGE, OR EXPENSE RESULTING FROM IMPROPER USE OF THIS PRODUCT.

**SAFETY DATA SHEET PREPARED BY  
ABSTRAX, SEPTEMBER 2022  
IN CONFORMITY WITH OSHA 1910.1200**