



Geoquímica Industrial IBCER, S.A. de C.V.

## MATERIAL SAFETY DATA SHEET

# FULVOUS

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Revision date: April/19/2017

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### 1-PRODUCT IDENTIFICATION

**Name:** Fulvous.

**Chemical description:** Fulvic acid and citric acid.

**Company:** Geoquímica Industrial IBCER S.A de C.V; Carr.Internacional Mexico Nogales km1619.5, Local 23; Los Mochis Sinaloa CP 81255; Phone: +52 (668) 8156486.

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### 2- COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	CONCENTRATION
Fulvic acid	479-66-3	10.50%
Citric acid	77-92-9	10.00%
Water	7732-18-5	76.00%
Inert material	n.a	3.50%

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### 3- PHYSICAL and CHEMICAL PROPERTIES

**Appearance:** Liquid.

**Color:** Brown.

**Odor:** Not distinctive.

**PH:** 2.7-3.0

**Relative density (specific gravity):** 1.104

**Melting point:** Not flammable.

**Solubility in water:** Completely soluble.

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#### 4- FIRST AID MEASURES

**Ingestion:** Immediately drink water to dilute. Consult a physician if symptoms develop. Never give anything by mouth to an unconscious person.

**Inhalation:** Remove individual to fresh air. Seek medical attention.

**Skin Contact:** Flush skin with water, rinse thoroughly.

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Call a physician immediately.

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#### 5- FIRE- FIGHTING MEASURES

**Flash point:** Not flammable.

**Suitable extinguishing media:** Water, CO<sub>2</sub>, fire-extinguishing foam.

**Specific hazards arising:** Will produce oxides of carbon if evaporated and burned.

**from the chemical**

**Special firefighting procedures:** In case of fire, use firefighting equipment appropriate to the cause of the fire.

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#### 6-ACCIDENTAL RELEASE MEASURES

**Personal precaution, protective**

**Equipment and emergency procedures:** Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

**Environmental precautions:** Stop source of spill as soon as possible and notify appropriate personnel. Utilize emergency response personal protective equipment prior to the start of any response. Evacuate all non-essential personnel.

**Methods and materials for containment and cleaning up:** Absorb spilled liquid with vermiculite, polypads or other suitable absorbent materials, then place in a suitable chemical waste container. Contain all contaminated water for disposal and /or treatment.



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## 7- HANDLING AND STORAGE

**Precautions for safe handling:** Wear appropriate personal protective equipment. Avoid contact with skin, eyes or clothing. Upon contact with skin or eyes, wash with water. Avoid breathing mist. Wash hands after handling this product. Do not eat or drink while handling this material.

**Conditions for safe storage:** Open containers slowly, on a stable surface. Containers of this product must be properly labeled. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Material should be stored in secondary containers, or in a diked area, as appropriate. Store containers away from incompatible chemicals. Keep container tightly closed when not in use. Wash thoroughly after using this material. Storage areas should be made of fire-resistant materials. If appropriate, post warning signs in storage and use areas. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged. Empty containers may contain residual liquid; therefore, empty containers should be handled with care.

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## 8- EXPOSURE CONTROLS- PERSONAL PROTECTION

**Engineering Controls:** Good general ventilation should be used.

### **Individual protection measures, such as personal protective equipment**

**Eye/Face protection:** Use chemical goggles.

**Skin Protection:** Wear protective gloves.

**Respiratory protection:** Respiratory protection is not normally needed since volatility and toxicity are low. If vapors or mists are generated, wear a NIOSH approved respirator.

**Hygiene measures:** A safety shower and eyewash station should be provided. Keep the product away from food, beverages and feed. Wash hands after handling the material and before eating, drinking and/or smoking. Avoid contact with eyes and skin. Routinely wash work clothing to remove contaminants.



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## 9-REACTIVITY DATA

**Reactivity:** This product is non-reactive under recommended storage conditions.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** Hazardous polymerization does not occur.

**Conditions to avoid:** Contact with incompatible materials.

**Incompatible materials:** Strong oxidizing agents.

**Hazardous decomposition products:** Oxides of carbon if burned.

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## 10-TOXICOLOGY

### Information on likely routes of exposure:

**Ingestion:** May cause irritation of gastrointestinal tract.

**Inhalation:** May cause irritation to the mucous membranes and upper respiratory tract.

**Skin contact:** May cause irritation.

**Eye contact:** Causes serious eye irritation.

### Information on toxicological effects:

**Carcinogenicity:** This product is not known or reported to be carcinogenic by any reference source, including IARC, NTP.

Epidemiology: No Information available.

Teratogenicity: No information available.

Mutagenicity: No information available.

Neurotoxicity: No information available.

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## 11-ENVIRONMENTAL HAZARDS

### Ecotoxicity

**Acute hazards to the aquatic environment:** No data available.

**Chronic hazards to the aquatic environment:** No data available.

**Bioaccumulative potentials:** No data available.



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**Other information:** Do not allow material to be released to the environment without proper governmental permits.

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## 12- DISPOSAL

**Disposal instructions:** waste disposal must be in accordance with appropriate Federal, State and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

**Contaminated packaging:** The use of this material has the responsibility to dispose of unused material, residues and containers in compliance with all local, state and federal laws.

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## 12- TRANSPORTATION

**Proper shipping class:** Not regulated.

**Hazard class:** not regulated.

**UN number:** Not regulated.

**Packing group:** not regulated.

**Emergency guide number:** Nor regulated.

**DOT Label:** not applicable.

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## 14- REGULATORY INFORMATION

**This product is not considered a Hazardous chemical by the OSHA Hazard Communication Standard, 29CFR1910.1200 and 29CFR1910.122**

**Product related hazard information:** Observe the general safety regulations when handling chemicals.

**Information about limitation for use:** For use only by technically qualified individuals.

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## 15- OTHER INFORMATION

The information provided in the Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

We do not accept liability for loss, injury or damage which may result from misuse. We encourage users to conduct their own testing best suited for their purposes under their conditions.

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## 16-HAZARD IDENTIFICATION

