Safety Data Sheet
Tartrazine, 1.5% in Acetic Acid

Section 1 - Chemical Product and Company Identification

SDS Name: Tartrazine, 1.5% in Acetic Acid
Catalog Numbers: SO-455, K-693-9
Company Identification: Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.
10 ELECTRONICS AVENUE
DANVERS, MA 01923
For information, call: 978-739-4883
Emergency Number: 800-424-9300
For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

GHS Classifications

H302-Acute toxicity, oral: 4
H315-Skin corrosion/irritation: 2
H317-Sensitisation, skin: 1
H319-Serious eye damage/eye irritation: 2A

Pictograms or Hazard symbols and Hazard statement(s):

Signal Word: Warning

Hazard Statement(s):

H302-Harmful if swallowed
H315-Causes skin irritation
H317-May cause an allergic skin reaction
H319-Causes serious eye irritation

Precautionary Statements:

P261-Avoid breathing dust/fume/gas/mist/vapours/spray.
P264-Wash thoroughly after handling.
P270-Do not eat, drink, or smoke when using this product.
P272-Contaminated work clothing should not be allowed out of the workplace.
P280-Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312-If swallowed: Call a Poison Center or doctor/physician if you feel unwell.
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.
P330-Rinse mouth.
P332+P313-If skin irritation occurs: Get medical advice/attention.
P333+P313-If skin irritation or rash occurs: Get medical advice/attention.
P337+P313-If eye irritation persists: Get medical advice/attention.
P362-Take off contaminated clothing and wash before reuse.
P363-Wash contaminated clothing before reuse.
P501-Dispose of contents in accordance with local/regional/national/international regulations.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
1934-21-0	Tartrazine	1.5 w/v
64-19-7	Acetic Acid	1.5 v/v
7732-18-5	Water	balance

Section 4 - First Aid Measures

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Seek immediate medical advice.

Dermal Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical advice.

Oral Exposure: If swallowed, seek immediate medical advice. Clean mouth with water. Drink water after cleaning mouth.

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use dry chemical, carbon dioxide, dry sand, water spray, or alcohol-resistant foam.

Hazardous Combustion Products: Carbon oxides, nitrogen oxides, sulfur oxides, sodium oxides, irritating fumes and gases.

Flash Point: Not Available
Autoignition Temperature: Not Available
Explosion Limits, Lower: Not Available
Upper: Not Available
NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s):
Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation.

Methods for Cleaning up: Absorb with sand, earth, or vermiculite. Carefully sweep up and containerize for proper disposal. Do not release to the environment. Do not release to drains.

Section 7 - Handling and Storage

Use care when handling. Wear personal protective equipment. Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Store in a tightly closed container at room temperature. Keep away from incompatible materials.

Note: Acetic acid is extremely destructive to all body tissue. In concentrated form (glacial acetic acid), it is corrosive and flammable. Inhalation of concentrated vapors may cause serious damage to the lining of the nose, throat, and lungs. Breathing difficulties may occur. Ingestion of concentrated acetic acid causes severe swelling, severe damage to the tissue and danger or perforation. Contact with concentrated acetic acid may cause serious damage to the skin. Eye contact with concentrated acetic acid may cause severe eye damage followed by loss of sight. Exposure to vapor may cause intense watering and irritation to eyes.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Exposure Limits:

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Tartrazine CAS#1934-21-0	Not listed	Not listed	Not listed
Acetic Acid CAS#64-19-7	10 ppm TWA 15 ppm STEL	10 ppm TWA 25 mg/m3 TWA 15 ppm STEL 37 mg/m3 STEL 50 ppm IDLH	10 ppm TWA 25 mg/m3 TWA

OSHA Vacated PELs: Acetic Acid: 10 ppm TWA; 25 mg/m3 TWA

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Appearance: Orange-yellow
Odor: Vinegar-like
Vapor Pressure: Not available
Odor threshold: Not available
Vapor Density: Not available
pH: Not available
Relative density: Not available
Melting point/freezing point: Not available
Solubility: Soluble in water
Boiling Point: Not available
Flash point: Not available
Evaporation Rate: Not available
Flammability (solid, gas): Not available
Partition coefficient: n-octanol/water: Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity: Not available
Specific Gravity/Density: Not available

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, excess heat, and freezing.
Incompatibilities with Other Materials: Strong oxidizing agents, chromic acid, ethylene glycol, perchloric acid, phosphorous trichloride, oxidizers, sodium peroxide, strong caustics, most metals, carbonates, hydroxides, oxides, and phosphates.
Hazardous Decomposition Products: Carbon oxides, nitrogen oxides, sulfur oxides, sodium oxides, irritating fumes and gases.

Section 11 - Toxicological Information

CAS#1934-21-0 Tartrazine RTECS#: UQ6400000
LD50 Oral: 12750 mg/kg (mouse)
LD50 Dermal: Not available
LC50 Inhalation: Not available

Carcinogenicity: Tartrazine CAS#1934-21-0 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop 65.

CAS#64-19-7 Acetic Acid: RTECS#: AF1225000
LD50 Oral: 3310 mg/kg (rat)
LC50 Inhalation: 11.4 mg/L (rat) 4h
LC50 Inhalation: 5620 ppm (mouse) 1h
LD50 Dermal: 1,112 mg/kg (rabbit)
Investigated as a mutagen, reproductive effecter.

Skin corrosion/irritation: skin (rabbit), causes severe burns
Serious eye damage/eye irritation: eyes (rabbit), corrosive to eyes

Carcinogenicity: Acetic Acid CAS# 64-19-7 is not listed by IARC, NTP, ACGIH, OSHA or California Prop 65.

Epidemiology: Not Available
Teratogenicity: Not Available
Reproductive Effects: Not available
Developmental Effects: Not available
Neurotoxicity: Not Available
Mutagenicity: Not available
Specific Target Organ Toxicity, Single Exposure: Not available
Specific Target Organ Toxicity, Repeated Exposure: Not available

Note: Acetic acid is extremely destructive to all body tissue. In concentrated form (glacial acetic acid), it is corrosive and flammable. Inhalation of concentrated vapors may cause serious damage to the lining of the nose, throat, and lungs. Breathing difficulties may occur. Ingestion of concentrated acetic acid causes severe swelling, severe damage to the tissue and danger or perforation. Contact with concentrated acetic acid may cause serious damage to the skin. Eye contact with concentrated acetic acid may cause severe eye damage followed by loss of sight. Exposure to vapor may cause intense watering and irritation to eyes.

The toxicological properties of this material have not been thoroughly investigated.

Section 12 - Ecological Information

Ecotoxicity: Do not release to environment. Do not release to drains.

CAS#1934-21-0 Tartrazine:
LC50, freshwater fish: >1000 ppm 48h (oryzias latipes)
EC50, water flea: >125 mg/L 48h (daphnia magna)
EC50, algae: >125 mg/L (desmodesmus subspicatus)(green algae)

CAS# 64-19-7 Acetic Acid:
LC50, freshwater fish: 88 mg/L 96h (pimephales promelas)
LC50, freshwater fish: 75 mg/L 96h (lepomis macrochirus)
EC50, water flea: 95 mg/L 24h
EC50, microtox: 8.8 mg/L 5min (photobacterium phosphoreum)

Persistence and degradability: Not available
Bio-accumulative potential: Not available
Mobility: Will likely be mobile in the environment due to its water solubility.

Section 13 - Disposal Considerations

DISPOSAL: Dispose of in accordance with all federal, state, and local regulations.

Section 14 – Transport Information

DOT
Not Regulated

Section 15 - Regulatory Information

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, ad the SDS contains all the information required by the CPR.

Section 16 - Additional Information

SDS Creation Date: 1-8-10
Revision #1: 10-7-13 MH
Revision #2: 8-31-20
Revision #3: 3-9-22

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