

1. Identification

(a) Product identifier used on the label:

Universal Test Mix

(b) Other means of identification:

Synonyms: NONE
Grade: N/A
Isco Part Number(s): 605234317
CAS Number: N/A (Mixture)

(c) Recommended use of the chemical and restrictions on use:

Chromatography equipment verification

(d) Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:

Teledyne Instruments, Inc. d/b/a Teledyne Isco
4700 Superior Street
Lincoln, NE 68504
Telephone: (402)464-0231

(e) Emergency phone number:

ChemTel (Contract Number MIS8758990)
United States, Canada, Puerto Rico, and the U.S. Virgin Islands:
Toll Free: (800) 255-3924
International Access:
+01-813-248-0585

2. Hazard(s) Identification

(a) GHS Classification of the chemical in accordance with paragraph (d) of §1910.1200:

<u>Hazard Class</u>	<u>Category</u>
Acute toxicity, Oral	4
Carcinogenicity	1B

(b) Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200:

Hazard Symbol:



Signal Word: Danger

Hazard Statements:

H302	Harmful if swallowed.
H350	May cause cancer.

Precautionary Statements:

P201	Obtain special instructions before use.
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2. Hazard(s) Identification (continued)

Precautionary Statements (continued):

P202	Do not handle until all safety precautions have been read and understood.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

(c) Hazards not otherwise classified: None

3. Composition/Information on Ingredients

<u>Ingredient:</u>	<u>CAS Number:</u>	<u>Percent:</u>
N-Benzylbenzamide: C ₁₄ H ₁₃ NO	1485-70-7	80%
Phenacetin: C ₁₀ H ₁₃ NO ₂	62-44-2	20%

4. First-Aid Measures

General:	Consult a physician. Show this SDS to the doctor in attendance.
Inhalation:	Remove to fresh air. Get medical attention for any breathing difficulty.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Skin Contact:	Wash exposed area with soap and water. Get medical advice if irritation develops.
Eye Contact:	Flush eyes with water as a precaution.

5. Fire-Fighting Measures

Fire Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical or CO ₂ .
Special Information:	Use protective clothing and breathing equipment appropriate for the fire.

6. Accidental Release Measures

(a) Personal precautions, protective equipment:

Use PPE (see section 8). Avoid dust formation. Avoid breathing vapors, mist, gas, or dust. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

(b) Environmental precautions:

Do not let product enter drains.

(c) Methods and materials for containment and cleaning up:

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. Handling and Storage

(a) Precautions for safe handling:

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

(b) Conditions for safe storage:

Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

8. Exposure Controls/Personal Protection

(a) Airborne Exposure Limits:

Contains no substances with occupational exposure limit values.

(b) Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

(c) Individual protection measures, personal protective equipment (PPE):

Eye/Face Protection: Safety Glasses, ANSI or NIOSH approved.

Skin Protection: Handle using Nitrile gloves.

Body Protection: If its use requires manual handling, wear long sleeves

Respiratory Protection: For dusty conditions, dust respirator, NIOSH/MSHA approved.

9. Physical and Chemical Properties

(a) Appearance (physical state, color, etc.):	Crystalline; white powder
(b) Odor:	No data
(c) Odor threshold:	No data
(d) pH:	No data
(e) Melting point/freezing point:	Melting: 104 - 106 °C
(f) Initial boiling point and boiling range:	No data
(g) Flash point:	No data
(h) Evaporation rate:	No data
(i) Flammability (solid, gas):	No data
(j) Upper/lower flammability or explosive limits:	No data
(k) Vapor pressure:	No data
(l) Vapor density:	No data
(m) Relative Density:	No data
(n) Solubility (ies):	No data
(o) Partition coefficient: n-octanol/water:	No data
(p) Auto-ignition temperature:	No data
(q) Decomposition temperature:	No data
(r) Viscosity:	No data

10. Stability and Reactivity

(a) Reactivity:	No data
(b) Chemical stability:	Stable under ordinary conditions of use and storage
(c) Possibility of hazardous reactions:	No data
(d) Conditions to avoid:	No data
(e) Incompatible materials:	Strong oxidizing agents, strong acids, strong bases, strong reducing agents
(f) Hazardous decomposition products:	Carbon oxides, Nitrogen oxides (NOx)

11. Toxicological Information

- (a) Likely routes of exposure: inhalation, ingestion, skin and eye contact
- (b) Symptoms related to the physical, chemical and toxicological characteristics: No data available
- (c) Delayed and immediate effects, chronic effects from short- and long-term exposure: No data available
- (d) Toxicity:

Acute toxicity:

LD50 Oral, Rat – 8,250 mg/kg (Behavioral: Somnolence, Cardiac: Pulse Rate, Nutritional and Gross Metabolic: Changes in: Body temperature decrease)

LD50 Inhalation, Mouse - >99,000 mg/m³

Skin Corrosion/Irritation: No data available

Serious eye damage/eye irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Reproductive: No data available

Additional Information:

RTECS: AM4375000

Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis.

Onset may be delayed 2 to 4 hours or longer.

Stomach - Irregularities - Based on Human Evidence

- (e) NTP / IARC / OSHA Carcinogen Listing:

NTP: RAHC - Reasonably anticipated to be a human carcinogen (Phenacetin)

IARC: 1 – Group 1: Carcinogenic to humans (Phenacetin)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

12. Ecological information

- (a) Toxicity: No data available
- (b) Persistence and degradability: No data available
- (c) Bioaccumulative potential: No data available
- (d) Mobility in soil: No data available
- (e) Other adverse effects: No data available

13. Disposal Considerations

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Container: Dispose of container as unused product in accordance with federal, state and local requirements.

14. Transport Information

DOT (US): UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Phenacetin)
Marine pollutant: no
Reportable Quantity (RQ): 500 lbs
Poison Inhalation Hazard: no
IMDG: Not dangerous goods
IATA: Not dangerous goods

15. Regulatory Information

15.1 US Federal Regulations

Toxic Substances Control Act (TSCA) Section 8(b): This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

CERCLA Regulated Chemicals: This material does not contain any CERCLA regulated chemicals.

SARA Title III - Section 302 - Notification and Information: This material does not contain any SARA extremely hazardous substances.

SARA 311/312 Hazard Class: No SARA Hazards

SARA Title III - Section 313 - Toxic Chemical Release Reporting: This material does not contain any SARA 313 chemicals above de minimus levels.

HAPS (Hazardous Air Pollutants): This material does not contain any hazardous air pollutants.

15.2 US States Regulatory Reporting

CA Proposition 65 Carcinogens:

15. Regulatory Information (continued)

WARNING! This product contains a chemical known to the State of California to cause cancer.

Ingredient	CAS-No.	Revision Date
Phenacetin	62-44-2	1992-11-09

CA Proposition 65 Reproductive Toxins: This product does not contain any substances known to the State of California to cause reproductive harm.

16. Other Information

NFPA 704 (National Fire Protection Association):

Health: 1, Flammability: 0, Reactivity: 0, Others: None

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide):

Health: 1, Flammability: 0, Physical Hazard: 0, PPE: X

This SDS has been prepared to meet the requirements defined in 29CFR1910.1200 - Hazard Communication, and its appendices; and organized per Table D.1. Teledyne Isco provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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