

MATERIAL SAFETY DATA SHEET

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME IATR
CAS NUMBER 136538-85-7
ROI NUMBER 7024I
SYNONYMS 5(6)-Iodoacetamidotetramethylrhodamine

**MANUFACTURER/
SUPPLIER** Research Organics
4353 E 49th Street
Cleveland, Ohio
44125 USA

TELEPHONE NUMBERS - 24 HOUR EMERGENCY ASSISTANCE:

INFOTRAC 800-535-5053

TELEPHONE NUMBERS - GENERAL ASSISTANCE:

Product Information 800-321-0570

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Percentage*	Exposure Limits/Health Hazards
5(6)-Iodoacetamidotetramethylrhodamine	136538-85-7	>=98 %	No Exposure limits established by OSHA or ACGIH MAY BE IRRITATING, MAY BE HARMFUL.

*Values do not reflect absolute minimums and maximums; those values may vary from time to time.

3 HAZARDS IDENTIFICATION

Emergency Overview

CAUTION!

MAY BE IRRITATING TO THE SKIN, EYES, AND UPPER RESPIRATORY TRACT.

MAY BE HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN

Potential Health Effects Skin

This material May cause skin irritation. Reddening, itching and inflammation may result.

May be absorbed through the skin.

Potential Health Effect Eyes

Direct contact may cause irritation, redness, tearing and blurred vision.

Potential Health Effects Inhalation

May cause irritation to the respiratory tract.

This material may cause injury or illness if inhaled.

Potential Health Effect Ingestion

If ingested, this material may cause irritation to the mouth, throat and gastrointestinal tract.

May be harmful if swallowed.

Special Toxic Effects

CAUTION! THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN FULLY INVESTIGATED.

Target Organs

ND

4 FIRST AID MEASURES

Skin

Immediately flush skin with plenty of water, for at least 15 minutes, while removing contaminated clothing and shoes. Contaminated clothing must be laundered before reuse. Get medical attention if irritation develops or persists.

Eyes

Flush immediately with large amounts of water for at least 20 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Do not allow victim to rub the affected eye(s).

Get medical attention if irritation persists.

Inhalation

Safely remove victim to fresh air. If not breathing, institute artificial respiration/rescue breathing. If breathing is difficult, ensure clear airway and give oxygen.

Get medical attention.

Ingestion

If swallowed, wash out mouth with water provided person is conscious.

Never give anything by mouth to an unconscious person.

Get medical attention.

5 FIRE FIGHTING MEASURES

Hazardous Combustion Products

MAY EMIT TOXIC AND/OR IRRITATING FUMES UNDER FIRE CONDITIONS.

Extinguishing Media

Use a water spray, dry chemical, alcohol foam, all purpose foam or carbon dioxide to extinguish fire.

Basic Fire Fighting Procedure

As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear. Evacuate the area and fight fire from a safe distance.

Unusual Fire and Explosion Hazards

None known to manufacturer.

Flash Point Temperature	ND (Solid)
Autoignition Temperature	ND
Flammability Limits in Air Lower	ND
Flammability Limits in Air Upper	ND

6 ACCIDENTAL RELEASE MEASURES

Emergency Action

Evacuate area endangered by release as required.

Environmental Precautions

If product is released to the environment, take immediate steps to stop the release. Caution should be exercised regarding personnel safety and exposure to the released product. Notify local authorities and the National Response Center, if required.

Spill or Leak Procedure

Vacuum or sweep up material and place in a disposal container. Clean up spills immediately under qualified supervision observing precautions in Protective Equipment section. Avoid clean up procedures that generate dust or result in water pollution.

After removal, scrub the contaminated area with detergent and flush thoroughly with water. Absorb wash liquid and place in the disposable container. Do not flush to sewer. Avoid runoff into storm sewers and ditches which lead to waterways.

7 HANDLING AND STORAGE

Handling

Use only in a well ventilated area. Avoid inhalation and contact with skin, eyes and on clothing. Empty containers may contain material residue. Do not reuse. Do not eat, drink or smoke in areas of use or storage. Minimize dust generation during handling and contact.

Wash hands thoroughly before eating, drinking or smoking.

Storage

Store in refrigerator.

Store under Nitrogen.

Keep containers tightly closed and upright when not in use.

Storage Hazards

Store away from oxidizers.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Local exhaust ventilation, process enclosures, and other forms of engineering controls are the preferred means for controlling exposures.

Facilities using or storing this material must be equipped with an eyewash station and safety shower.

Eye Protection PPE

Avoid eye contact with this material. Wear chemical safety glasses with side shields or chemical safety goggles.

Do not wear contact lenses when working with this substance.

Skin Protection PPE

Showering and changing into street clothing after work is recommended.

Avoid skin contact with this material. Use appropriate chemical protective gloves when handling.

Respiratory Protection PPE

A NIOSH approved dust respirator should be used as a precautionary measure when airborne contaminants may occur.

A respiratory protection program that meets OSHA 1910.134 requirements must be followed whenever workplace conditions warrant a respirator's use.

Contact the manufacturer of your respiratory protection equipment for further information and/or recommendations.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance

SOLID.

Boiling Point	ND
Melting Point	ND
Freezing Point	ND
Vapor Density	ND
Vapor Pressure	ND
Specific Gravity	ND
Molecular Formula	C ₂₆ H ₂₄ O ₄ N ₃ I

Molecular Weight 569.4
pH ND

10 STABILITY / REACTIVITY

Stability/Incompatibility

Stable under normal conditions of use.
Incompatible with strong oxidizing agents.

Decomposition Products

Combustion may produce CO, CO₂, NO_x, and/or Hydrogen Iodide fumes/vapors.

Hazardous Polymerization

Will not occur.

11 TOXICOLOGICAL INFORMATION

CAUTION! THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN FULLY INVESTIGATED. FOLLOW GOOD LABORATORY PRACTICES WHEN HANDLING.

Routes of Exposure

Inhalation, ingestion, skin and eye contact.

LD50

NO ORAL LD50 IN RATS INFORMATION IS AVAILABLE.

RTECS # Not Listed

REGISTRY OF THE TOXIC EFFECTS OF CHEMICAL SUBSTANCES(RTECS)

Carcinogenicity

NOT LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN

12 ECOLOGICAL INFORMATION

EcoToxicological Information

DATA NOT YET AVAILABLE.

Chemical Fate Information

DATA NOT YET AVAILABLE.

13 DISPOSAL CONSIDERATIONS

Waste Disposal

Contact your local disposal service provider(s) for appropriate method(s) of disposal.

Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

If the material is determined to be a hazardous waste, the transportation, storage, treatment and disposal of this waste material must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Disposal can occur only in properly permitted facilities.

14 TRANSPORTATION INFORMATION

Department of Transportation (DOT) Requirements

Proper Shipping Name NOT REGULATED

Hazard Class NA

UN/NA Code NA

Packaging Group NA

Reportable Quantity None

Labels Required NA

Marine Pollutant (49 CFR 172.101 Appendix B) No

15 REGULATORY INFORMATION

Federal Regulations

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following

notices are required by 40 CFR 720.36 (C) for those products NOT on the inventory list: (i) This product is supplied solely for use in Research and Development by

or under the supervision of a technically qualified individual as defined by 40 CFR 720.0 et.sec.

(ii) The health risks of this product have not fully been determined. Any information that is or becomes available will be supplied on a Material Safety

Data Sheet. Uses other than for Research and Development may constitute a violation of TSCA.

State Regulations

Based on available information this material does not contain any components or chemicals currently known to the State of California to cause cancer, birth defects or reproductive harm at levels which would be subject to Proposition 65.

Reformulation, use or processing of this product may affect its composition and would require re-evaluation

International Regulations

ND

International Phrases

R - ND Not Determined

S - ND Not Determined

EINECS - ND

SARA TITLE III RATINGS

Immediate Hazard

Delayed Hazard

Fire Hazard

Pressure Hazard

Reactivity Hazard

Section 313 Supplier Notification:

If this box is checked, this product contains EPCRA 313 chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). If you are unsure whether you are subject to reporting requirements or need more information, call EPA's EPCRA Call Center at (800) 424-9346 or (703) 412-9810.

NFPA(R) Ratings

Health	Flammability	Reactivity	Special Hazards
-	-	-	-

HMIS(R) RATINGS

Health	Flammability	Physical Hazard	Personal Protection Equipment
1	0	0	E

NFPA is a registered trademark of National Fire Protection Association. HMIS is a registered trademark of National Paint and Coating Association.

16 OTHER INFORMATION

Disclaimer

The data contained in this Material Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process. Research Organics, Inc. provides the information contained herein in good faith but make no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. Research Organics, Inc. makes no representations, or warranties, either expressed or implied, of merchantability, fitness for a particular purpose with respect to the information refers. Accordingly, Research Organics, Inc. will not be responsible for damages resulting from the use of reliance upon this information. In no instance is any Research Organics, Inc. product offered for drug, food, food additive or clinical use in humans.

This material is sold for research and development only. Use in any applications other than research and development may require prior approval from the EPA or inclusion on the TSCA inventory.

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Completed By: Environmental and Safety Department