



SAFETY DATA SHEET

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1. IDENTIFICATION

This Safety Data Sheet is for the following products:

MANUFACTURER:

Immucor GTI Diagnostics, Inc.

20925 Crossroads Circle

Waukesha, WI 53186 USA

Manufacturer's Phone: 855-IMMUCOR
(855-466-8267)

AUTHORIZED REPRESENTATIVE:

Immucor Medizinische Diagnostik GmbH

Robert-Bosch-Strasse 32

63303 Dreieich

Germany

After normal business hours, weekends, and holidays:
Call your local emergency center.

Catalog #	PRODUCT NAME	Product Components			
		Master Mix	Probe Mix	eRES Probe Mix	Dilution Solution
628911	LIFECODES HLA-A SSO Typing Kit	870µL	810µL		9.9mL
628913	LIFECODES HLA-A eRES SSO Typing Kit	870µL	810µL	810µL	19.7mL
628915	LIFECODES HLA-B SSO Typing Kit	870µL	810µL		9.9mL
628917	LIFECODES HLA-B eRES SSO Typing Kit	870µL	810µL	810µL	19.7mL
628921	LIFECODES HLA-C eRES SSO Typing Kit	870µL		810µL	19.7mL
628923	LIFECODES HLA-DRB1 SSO Typing Kit	870µL	810µL		9.9mL
628925	LIFECODES HLA-DRB1 eRES SSO Typing Kit	870µL	810µL	810µL	19.7mL
628927	LIFECODES HLA-DRB 345 SSO Typing Kit	870µL	810µL		19.7mL
628930, 628930R	LIFECODES HLA-DQA1/B1 SSO Typing Kit	870µL	810µL		19.7mL
628936, 628936R	LIFECODES HLA-DPA1/B1 SSO Typing Kit	870µL	810µL		19.7mL
628939, 628941	LIFECODES HLA-Null Allele SSO Typing Kit	870µL x 2	810µL x 2		19.7mL
545110R	LIFECODES HLA-KIR SSO Typing Kit	170µL x 2	720µL		9.9mL
628515	Dilution Solution				19.7mL

SPECIFIC USE: For Laboratory testing. Please see the the product Insert for more details.

2. HAZARDS IDENTIFICATION

Probe Mix

GHS Classification

Acute Toxicity, Oral (Category 3). H301

Label Elements
All Kit Components


GHS06

Signal word (GHS)

Danger

Hazard statements (GHS):

H301 - Toxic if swallowed

H315 - Causes skin irritation.



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Precautionary statements(GHS): P264 - Wash hands thoroughly after handling
 P270 - Do not eat, drink or smoke when using this product
 P281 - Use personal protective equipment as required
 P301+ P310 - IF SWALLOWED:Immediately call a POISON CENTER or doctor/physician.
 P330 - Rinse mouth.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENTS</u>	<u>CAS NUMBER</u>	<u>CONCENTRATION</u>
<u>PROBE MIX</u>		
Tetramethyl ammonium chloride	75-57-0	<50%

The hazards identified with this product are those associated with tetramethylammonium chloride. All other components are confidential as per the trade secret provision of 29 CFR 1910.1200.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, Unconscious: maintain adequate airway and respiration. Consult a doctor/medical service if breathing problems develop.

Ingestion: DO NOT induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Give nothing (little) to drink. Get medical attention immediately. Rinse mouth with water. Call Poison Information Centre.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Do not apply neutralizing agents. Get medical attention immediately.

Skin Contact: Immediately flush with plenty water until there is no evidence of the chemical on the affected area. Soap may be used. Remove contaminated clothing and shoes.

5. FIRE-FIGHTING MEASURES

Flash Point: N/A

Autoignition Temperature: N/A

Fire and Explosion Hazards: N/A

Extinguishing Media: Use appropriate extinguishing media for surrounding fire: dry chemical, carbon dioxide, water spray or regular foam.

Special Fire Fighting Procedures: Wear appropriate personal protective equipment. Fight fires only if properly trained. Move containers from fire area if it can be accomplished without risk. Use water to keep containers cool. Dike fire control water.

Unusual Fire and Explosion Hazards: Avoid breathing vapors or dusts. Keep upwind.

Hazardous Decomposition Products: Not determined.

6. ACCIDENTAL RELEASE MEASURES

Action to Be Taken If Material Is Released or Spilled: Do not touch spilled material. Stop the release if you can do it without risk. Isolate the area and deny entry. Absorb the spill and place used absorbent material into approved containers for later disposal. Decontaminate the area with an approved disinfectant. Cover the area with paper towels and pour disinfectant over the area. Wipe the area until clean and dry. Discharge of absorbed material according to local regulations, Wash clothing and equipment after handling

7. HANDLING AND STORAGE

Handling: Food and drink should not be consumed, nor tobacco products used, nor cosmetics applied in areas where chemicals are stored or handled. Observe normal hygiene standards. Discharge according to local regulations. Remove and clean contaminated clothing. Handle and open the container with care.

Storage: Keep container tightly closed. Keep away from heat sources, LIGHT, combustible materials, acids and metals. Storage temperature: Consult component label. Avoid contact with open wounds and body fluids. Observe federal, state and local regulations.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below permissible air concentrations.

Eye/Face Protection: Use chemical safety goggles and/or full face shield where splashing of the solution is possible. Maintain eyewash fountain and quick drench facilities in the work area.

Skin Protection: Clothing such as gowns, aprons, or lab coats should be worn when working with this material. Protective gloves should be worn while handling materials and/or surfaces, which are potentially infectious.

Respiratory Protection: A NIOSH/MSHA approved respirator should be worn where airborne exposures may exceed OSHA/ACGIH exposure limits.

Other/General Protection: Hood, surgical caps, boots and shoe covers should be worn in areas with significant quantities of infectious materials.

PROBE MIX

<u>INGREDIENTS</u>	<u>CAS NUMBER</u>	<u>CONCENTRATION</u>	<u>OSHA PEL-TWA</u>	<u>ACGIH-TWA TLV</u>	<u>ACGIH-STEL/CEIL (C)</u>
Tetramethyl ammonium chloride	75-57-0	<50%	None established	None established	None established

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.):	All kit components: Liquid	Odor:	No data available
Odor threshold:	No data available	pH:	No data available
Melting point/freezing point:	No data available	Initial boiling point and boiling range:	No data available
Flash point:	No data available	Evaporation rate:	No data available
Flammability (solid, gas):	No data available	Vapor density:	No data available
vapor pressure:	No data available	Solubility(ies):	No data available
Relative density:	No data available	Partition coefficient: n-octanol/water:	No data available
Partition coefficient: n-octanol/water:	No data available	Upper/lower flammability or explosive limits:	No data available
Decomposition temperature:	No data available		

10. STABILITY AND REACTIVITY

Chemical Stability: Stable when stored at specified conditions (see label) until expiry date noted on vial.

Conditions to Avoid: Keep away from metals and acids

Incompatibility: Halogenated hydrocarbon, Metals, Acids, Acid chlorides

Hazardous Decomposition Products: Probe Mix pertains to Tetramethylammonium chloride, In fire conditions can emit carbon monoxide, hydrochloric acid and nitrogen oxides.

Hazardous Polymerization: Not determined.

Possibility of Hazardous Reaction: Not determined.

11. TOXICOLOGICAL INFORMATION

Acute Effects: The hazards identified with this product are those associated with tetramethylammonium chloride in probe mix (s). Tetramethylammonium chloride is a slight irritant and poison by ingestion. Potential Health Effects include: Inhalation may cause irritation, Eye Contact may cause irritation, Skin contact may cause irritation, Ingestion may cause dizziness, nausea and shortness of breath (nicotine-like symptoms). Acts as a ganglionic blocking agent and vasodilator. May be fatal if swallowed. Chronic effects may cause irritation.

Tetramethylammonium chloride LD50 for 50% solution = 94 mg/kg (oral-rat)

Not identified as an OSHA, NTP or IARC carcinogen. No data available indicating any carcinogenic activity. Carcinogenicity (TLV) :A4

Chronic Effects: No information found.

Listed Carcinogens: Not classified



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12. ECOLOGICAL INFORMATION

Aquatic toxicity

Tetramethylammonium chloride: This material may be biodegradable in an acclimated biological treatment facility. Reportedly: ~50% inhibition of nitrification at 2200 mg/L; Reportedly for daphnia magna: LOEC (lowest observed effect concentration) = 0.05 mg/L; NOEC (no observed effect concentration) 0.03 mg/L. Acute aquatic toxicity testing has shown this compound to be highly toxic to ceriodaphnia dubia (water flea).

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with applicable federal, state, and local government regulations. Waste generators must determine whether a discarded material is classified as a hazardous waste. USEPA guidelines for the classification determination are listed in 40 CFR parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. All the kit components must be considered as hazardous waste. They should be disposed of following established safety procedures and local regulations

14. TRANSPORT INFORMATION

UN ID Number:	N/A	Transport Hazard Class:	N/A
DOT Proper Shipping Name:	N/A	Packaging Group:	N/A

15. REGULATORY INFORMATION

TSCA: All components of this product are listed on the TSCA inventory.	SARA Title III: Section 302: None
CERCLA Reportable Quantity: None	Section 312: None
Clean Air Amendments-Hazardous Air Pollutant (HAPS): None	Section 313: None
California State Proposition 65: None.	

CANADA: These products have been classified in accordance with the hazard criteria of the Controlled Products Regulations and this SDS contains all information required by the Controlled Products Regulations.

16. OTHER INFORMATION

DISCLAIMER: The information contained herein is based on data considered accurate and is offered at no charge. No warranty is expressed or implied regarding the accuracy of this data. Liability is expressly disclaimed for loss or injury arising out of use of this information or the use of any materials designated.

Based on Regulation 1907/2006 (Reach)

REVISION DATE: 2017-02-07