



# SAFETY DATA SHEET

## Section 1. Identification

<b>Product Name:</b>	Trimethyltin chloride.
<b>Product Type:</b>	Solid
<b>CAS Number:</b>	1066-45-1
<b>Product Number:</b>	<a href="#">SN6451</a>
<b>Product Manufacturer:</b>	Ereztech LLC 11555 Medlock Bridge Road, Suite 100 Johns Creek, GA 30097
<b>Product Information:</b>	(888) 658-1221
<b><u>In case of an emergency:</u></b>	CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International); CCN836180 *** Contact manufacturer for all non-emergency calls.

## Section 2. Hazards Identification

### Emergency Overview

<b>Appearance/Odor:</b>	White crystalline solid, odor not determined.
<b>Classification:</b>	ACUTE TOXICITY; ORAL - Category 2, H300 ACUTE TOXICITY; DERMAL – Category 1, H310 SKIN CORROSION/IRRITATION - Category 2, H315 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A, H319 ACUTE TOXICITY; INHALATION – Category 2, H330 SPECIFIC TARGET ORGAN TOXICITY, SINGLE EXPOSURE; RESPIRATORY TRACT IRRITATION – Category 3, H335 SPECIFIC TARGET ORGAN TOXICITY, SINGLE EXPOSURE; RESPIRATORY TRACT IRRITATION – Category 3, H336 SPECIFIC TARGET ORGAN TOXICITY, REPEATED EXPOSURE; TARGET ORGANS: KIDNEY, LIVER, BLOOD – Category 2, H373 HAZARDOUS TO THE AQUATIC ENVIRONMENT, ACUTE TOXICITY – Category 1 H400 HAZARDOUS TO THE AQUATIC ENVIRONMENT, CHRONIC TOXICITY – Category 1 H410

### GHS label elements

<b>Signal word:</b>	DANGER
<b>Hazard statements:</b>	H300: Fatal if swallowed. H310: Fatal in contact with skin. H315: Causes skin irritation.

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### Section 2. Hazards Identification

**Hazard statements (cont.):** H319: Causes serious eye irritation.  
H330: Fatal if inhaled.  
H335: May cause respiratory irritation.  
H336: May cause drowsiness or dizziness.  
H373: May cause damage to organs (liver, kidney, blood) through prolonged or repeated exposure.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.

**Hazard pictograms:**



**Precautionary statements**

**Prevention:**

P260: Do not breathe dust/aerosols/fumes/gases/vapors.  
P262: Do not get in eyes, on skin or on clothing.  
P264: Wash skin thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P271: Use only outdoors or in a well-ventilated area.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P284: Wear respiratory protection.

**Response:**

P301 + P310: IF SWALLOWED: Call a POISON CENTER or doctor/physician.  
P302 + P350: IF ON SKIN: Gently wash with plenty of soap and water.  
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present. Continue rinsing.  
P310: Immediately call a POISON CENTER or doctor/physician.  
P313 + P332: If skin irritation occurs: Get medical advice/attention.  
P313 + P337: If eye irritation persists: Get medical advice/attention.  
P330: Rinse mouth.  
P361 + P363: Take off immediately all contaminated clothing. Wash before reuse.  
P391: Collect spillage.

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### Section 2. Hazards Identification

<b>Storage:</b>	P403 + P233: Store in a well ventilated place. Keep container tightly closed.
	P405: Store locked up.
<b>Disposal:</b>	P501: Dispose of contents/ container to an approved wasted disposal plant.
<b>General:</b>	None.
<b>OSHA/HCS status:</b>	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Hazards not otherwise classified:</b>	None known.

### Section 3. Composition/Information on Ingredients

#### Substances

<b>Formula</b>	: C <sub>3</sub> H <sub>9</sub> ClSn
<b>Molecular weight</b>	: 199.27 g/mol
<b>CAS-No.</b>	: 1066-45-1

Ingredient Name	%	CAS Number
Trimethyltin chloride	>98	1066-45-1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First Aid Measures

#### Description of Necessary First Aid Measures

<b>General Advice:</b>	Move out of dangerous area. Do not breathe dust/fumes/gases/vapors. Do not get in eyes, on skin, or on clothing. Call a POISON CENTER or doctor/physician immediately. Show this safety data sheet to the doctor in attendance.
<b>Eye Contact:</b>	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue rinsing. Get immediate medical attention.
<b>Skin Contact:</b>	Immediately remove shoes and all contaminated clothing. Gently wash off contaminated skin with soap and plenty of water. Call a POISON CENTER or doctor/physician immediately.
<b>Inhalation:</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Call a POISON CENTER or doctor/physician immediately. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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### Section 4. First Aid Measures

**Inhalation (cont.):** Use a barrier to give mouth to mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Ingestion:** Call a physician or POISON CONTROL CENTER immediately. Rinse mouth. Do NOT induce vomiting. Remove dentures if any. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most Important Symptoms/Effects, Acute And Delayed Potential Acute Health Effects

**Eye Contact:** Symptoms may include stinging, tearing, redness, swelling and blurred vision. Product exerts a strong caustic effect on eye tissues which will result in severe irritation and possibly permanent damage.

**Inhalation** Product is fatal if inhaled. Product is extremely destructive to the tissue of mucous membranes and upper respiratory tract, eyes and skin. Symptoms may include nasal irritation, shortness of breath, severe headaches, respiratory irritation and nausea.

**Skin Contact:** Product is fatal in contact with skin. Organotins may be absorbed through the skin. Prolonged contact with skin may result in necrosis, edema and/or inflammation of the exposed tissues. Absorbed product may be expected to produce the same effects as inhaled product.

**Ingestion:** Product is fatal if ingested. Prolonged exposure of the digestive tract to the product may produce tissue necrosis and possibly perforation of the intestinal wall.

#### Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

**Notes to Physician:** Treat symptomatically.

**Specific Treatments:** No specific treatment.

**Protection of First Responders:** No action taken shall be taken involving any personal risk without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

### Section 5. Fire Fighting Measures

**General Hazards:** Fire will produce irritating, corrosive and/or harmful gases.

**Suitable Extinguishing Media:** Use water spray, alcohol resistant foam, dry chemical or carbon dioxide (CO<sub>2</sub>).

**Unsuitable Extinguishing Media:** None identified.

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### Section 5. Fire Fighting Measures

**Unusual Fire and Explosion Hazards:**

Highly toxic hydrogen chloride gas will be produced during combustion.

**Product of Combustion:**

Decomposition products may include carbon oxides (CO<sub>x</sub>), tin oxides, phosgene and hydrogen chloride gas.

**Protection of Firefighters:**

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Fire-fighters should wear appropriate protection equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in a positive pressure mode. Avoid contact with skin and eyes. Do not breathe dust, aerosols, vapors or fumes.

### Section 6. Accidental Release Measures

#### Personal Precautions, Protective Equipment and Emergency Procedures

**For Non-emergency Personnel:**

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Prevent further leakage or spillage if safe to do so. Avoid the generation and inhalation of dusts and aerosols. Provide adequate ventilation. Wear respiratory protection. Put on appropriate personal protective equipment.

**For Emergency Responders:**

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

**Environmental Precautions:**

Do not allow dispersal of spilled material and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods for Containment

**Small/Large Spill:**

Contain and collect spillage with an inert, binding material (sand, diatomite, sawdust, acid binders, universal binders) to avoid creating dust and place in an appropriate waste disposal container.



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### Section 6. Accidental Release Measures

**Small/Large Spill:** Dispose of via a licensed waste disposal contractor.  
Contaminated absorbent material poses the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and Storage

**Precautions:** Product is water/moisture sensitive. Handle under an inert gas; nitrogen with less than 5 ppm each of moisture and oxygen is recommended. Avoid all contact with skin, eyes and clothing. Avoid the formation and the inhalation of dusts and aerosols. Do not ingest. Provide adequate ventilation.

**Protective Measures:** Put on appropriate personal protective equipment (see Section 8). Keep in the original container kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**General Occupational Hygiene:** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Safe Storage Conditions:** Product is water/moisture sensitive. Store under an inert gas; nitrogen with less than 5 ppm each of moisture and oxygen is recommended. Store in original container in a dry, cool and well-ventilated area, away from incompatible materials (oxidizing agents, moisture/water) and food and drink. Keep container tightly closed and sealed until ready for use. Store locked up.

### Section 8. Exposure Controls/Personal Protection

**Introductory Remarks:** These recommendations provide general guidance for handling this product. Because work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and conduct regular repairs. Waste from these procedures should be handled in accordance with Section 13.

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### Section 8. Exposure Controls/Personal Protection

#### Occupational Exposure Limits

List	Components	CAS-No.	Type	Value
OSHA Z1	Trimethyltin chloride	1066-45-1	PEL	0.1 mg/m <sup>3</sup> (TWA) Sn
ACGIH	Trimethyltin chloride	1066-45-1	TLV	0.1 mg/m <sup>3</sup> (TWA) Sn 0.2 mg/m <sup>3</sup> (STEL) Sn
NIOSH	Trimethyltin chloride	1066-45-1	REL	0.1 mg/m <sup>3</sup> (TWA) Sn
			IDLH	25 mg/m <sup>3</sup> Sn

#### Engineering Controls:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Provide an eyewash/shower station.

#### Environmental Exposure Controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual Protection Measures

##### Hygiene Measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Remove all soiled and contaminated clothing immediately. Do not inhale dusts or aerosols. Avoid contact with eyes and skin. Ensure that eyewash stations and safety showers are close to the workstation location.

##### Eye/Face Protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, or gases. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles, faceshield (8-inch minimum). Refer to 29 CFR 1910.133, ANSI Z87.1, or European Standard EN166.

##### Skin Protection

##### Hand Protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers.

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### Section 8. Exposure Controls/Personal Protection

#### Hand Protection (cont.):

In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Chemical-resistant gloves.

Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. For full contact, wear gloves made from Neoprene or nitrile rubber.

#### Other Skin Protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Respiratory Protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Section 9. Physical and Chemical Properties

<b>Physical State:</b>	Solid, crystalline.
<b>Color:</b>	White.
<b>Odor:</b>	No data available.
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Melting Point:</b>	40 °C (104 °F).
<b>Boiling Point:</b>	156 °C (313 °F).
<b>Flash Point:</b>	97 °C (206.6 °F).
<b>Auto-ignition temperature:</b>	No data available.
<b>Relative Density:</b>	No data available.
<b>Vapor Pressure:</b>	No data available.
<b>Vapor Density:</b>	No data available.
<b>Water Solubility:</b>	Miscible.



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### Section 10. Stability and Reactivity

<b>Reactivity:</b>	No additional data available.
<b>Chemical Stability:</b>	Stable at normal ambient temperature and pressure and under recommended storage conditions.
<b>Conditions to Avoid:</b>	Water and moisture sensitive. Handle under an inert dry gas.
<b>Incompatible Materials:</b>	Water/moisture, strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Carbon oxides (CO <sub>x</sub> ), tin oxides, phosgene, hydrogen chloride gas.
<b>Possibility of Hazardous Reactions:</b>	Under normal conditions of storage and use, hazardous reactions will not occur.

### Section 11. Toxicological Information

#### Information on Toxicological Effects

<b>Acute Toxicity</b>	: No specific data available.
<b>Irritation/Corrosion</b>	: No specific data available.
<b>Sensitization</b>	: No specific data available.
<b>Germ Cell Mutagenicity</b>	: No effects known.
<b>Carcinogenicity</b>	
<b>IARC</b>	: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<b>ACGIH</b>	: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.
<b>NTP</b>	: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.
<b>OSHA</b>	: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.
<b>Reproductive Toxicity</b>	: This product is not expected to cause reproductive or developmental effects.
<b>Teratogenicity</b>	: No specific data available.
<b>Specific Target Organ Toxicity (single exposure)</b>	: No specific data available.
<b>Specific Target Organ Toxicity (repeated exposure)</b>	: Prolonged or repeat exposure may result in damage to the liver, bone marrow and blood forming system.
<b>Aspiration Hazard</b>	: No specific data available.

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### Section 11. Toxicological Information

#### Information on the likely routes of exposure

: No specific data available.

#### Additional Information

: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract, eyes and skin.

To the best of our knowledge, the chemical, physical and toxicological properties of this product have not been thoroughly investigated.

### Section 12. Ecological Information

#### Numerical Measures of Toxicity

##### Aquatic Toxicity

Component	CAS No	Test	Species	Dose	Exposure
Trimethyltin chloride	1066-45-1	LC50 Fish	Oryzias latipes	5.62 mg/l	48 h
	1066-45-1	EC50	Water Flea	0.47 mg/l	24 h

##### Persistence and Degradability

###### Biodegradability

: No specific data available.

###### Bioaccumulative potential

: Cyprinodon sp. (minnow) – 10 µg/l (45 days).

###### Bioconcentration Factor (BCF)

: 375.

###### Mobility in soil

: No specific data available.

###### Other Adverse Effects

: This substance is hazardous to the environment and produces long lasting and harmful effects on aquatic life. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

### Section 13. Disposal Considerations

#### Waste Treatment Methods

##### Product

Dispose of in accordance with local, state, and federal regulations. Refer to 40 CFR 260-299 for complete waste disposal regulations. Consult your local, state, or federal agency before disposing of any chemicals.

##### Contaminated packaging

Empty containers retain product residue (dusts and/or vapors) and can be dangerous. Dispose of in the same manner as unused product.

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### Section 14. Transport Information

	<b>DOT</b>	<b>IMDG</b>	<b>IATA</b>
UN Number	UN 3146	UN 3146	UN 3146
UN Proper Shipping Name	Organotin compound, solid, n.o.s. (Trimethyltin chloride)	ORGANOTIN COMPOUND, SOLID, N.O.S. (Trimethyltin chloride)	Organotin compound, solid, n.o.s. (Trimethyltin chloride)
Transport Hazard Classes	6.1	6.1	6.1
Packing Group	I	I	I
Environmental Hazards	Yes	Yes	Yes
Additional Information	-	EMS No: F-A, S-A	-

**Special Precautions for User** : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transporting in Bulk According to Annex II of MARPOL 73/78 and the IBC Code** : Not applicable.

### Section 15. Regulatory Information

#### **TSCA (Toxic Substance Control Act):**

This product is listed in the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory).

#### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **SARA 311/312 Hazards**

Acute Health Hazard (Fatal if inhaled, ingested, in contact with skin; STOT – single exposure (respiratory irritation, drowsiness/dizziness); STOT – repeated exposure (liver, kidneys, blood)).

#### **Massachusetts Right to Know Components**

Trimethyltin chloride	CAS-No. 1066-45-1	Revision Date
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#### **Pennsylvania Right to Know Components**

Trimethyltin chloride	CAS-No. 1066-45-1	Revision Date
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#### **New Jersey Right to Know Components**

Trimethyltin chloride	CAS-No. 1066-45-1	Revision Date
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### Section 15. Regulatory Information

#### California Proposition 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### Section 16. Other Information

#### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### HMIS Rating

<b>HEALTH</b>	<b>4</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

#### History

<b>Date of printing</b>	: 1/19/2020
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<b>References</b>	: None available

#### Abbreviations and Acronyms

ACGIH: American Conference of Governmental Industrial Hygienists.  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
DOT: US Department of Transportation.

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### Section 16. Other Information

#### **Abbreviations and Acronyms (cont.)**

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

HMIS: Hazardous Materials Identification System.

IARC: International Agency for Research on Cancer.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA).

IDLH: Immediately Dangerous to Life or Health (US National Institute for Occupation Health and Safety (NIOSH)).

IMDG: International Maritime Code for Dangerous Goods.

NFPA: National Fire Protection Association.

NIOSH: National Institute of Occupational Safety and Health.

NTP: National Toxicology Program.

OSHA: Occupational Safety and Health Administration.

SARA: Superfund Amendments and Reauthorization Act.

STOT: Specific Target Organ Toxicity.

VOC: Volatile Organic Compound.

#### **Disclaimer**

**The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Ereztech LLC regarding the accuracy or completeness of the information. Ereztech LLC shall not be liable for any damages resulting from the handling, or from the contact with the above product.**

**Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.**

BRIDGING CHEMICAL GAPS