



# Econo-IRA

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 08/23/2013

Supersedes: 04/07/2013

Version: 1.0

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

#### Product Identifier

**Product name:** Econo-IRA

#### Intended Use Of The Product

**Use of the substance/mixture:** Iron control agent

#### Name, Address, And Telephone Of The Responsible Party

Economy® Polymers & Chemicals  
435 E. Anderson Road  
77047 Houston, TX  
T 713-723-8416; 1-800-231-2066  
[www.economypolymers.com](http://www.economypolymers.com)

#### Emergency Telephone Number

**Emergency number** : CHEMTREC 1-800-424-9300 (US); 703-527-3887 (International, collect calls are accepted)

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification Of The Substance Or Mixture

##### GHS-US classification

Acute Tox. 4 (Oral) H302  
Skin Irrit. 2 H315  
Eye Irrit. 2A H319

#### Label Elements

##### GHS-US labeling

##### Hazard pictograms (GHS-US)



GHS07

##### Signal word (GHS-US)

: Warning

##### Hazard statements (GHS-US)

: H302 - Harmful if swallowed  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation

##### Precautionary statements (GHS-US)

: P264 - Wash hands, forearms, and exposed areas thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P280 - Wear eye protection, protective gloves, protective clothing  
P301+P312 - If swallowed, call a doctor 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  
P321 - Specific treatment (see Section 4)  
P330 - If swallowed, rinse mouth  
P332+P313 - If skin irritation occurs: Get medical advice/attention  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P362 - Take off contaminated clothing  
P501 - Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulations

# Econo-IRA

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**Other Hazards** Not available

**Unknown acute toxicity (GHS US)** Not available

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Name	Product Identifier	% (w/w)	GHS-US classification
Stannous chloride	(CAS No.) 7772-99-8	40 - 70	Acute Tox. 4 (Oral), H302
Water	(CAS No.) 7732-18-5	40 - 70	Not classified
Hydrogen chloride	(CAS No.) 7647-01-0	1 - 5	Met. Corr. 1, H290 Acute Tox. 3 (Inhalation:gas), H331 Skin Corr. 1A, H314 Eye Dam. 1, H318

Full text of H-phrases: see section 16

### SECTION 4: FIRST AID MEASURES

#### Description Of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). If exposed or concerned: Get medical advice/attention.

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor/physician if you feel unwell.

#### Most Important Symptoms And Effects Both Acute and Delayed

**General:** Harmful if swallowed. Eye irritation. Causes skin irritation.

**Inhalation:** May cause irritation to the respiratory tract.

**Skin Contact:** Causes skin irritation.

**Eye Contact:** Causes serious eye irritation.

**Ingestion:** Swallowing a small quantity of this material will result in serious health hazard.

**Chronic symptoms:** Not available

#### Indication Of Any Immediate Medical Attention And Special Treatment Needed

If medical advice is needed, have product container or label at hand.

### SECTION 5: FIREFIGHTING MEASURES

#### Extinguishing Media

**Suitable extinguishing media:** Alcohol foam, carbon dioxide, dry chemical, water spray, fog.

**Unsuitable extinguishing media:** Do not use a heavy water stream. A heavy water stream may spread burning liquid.

#### Special Hazards Arising From The Substance Or Mixture

**Fire hazard:** Not considered flammable but may burn at high temperatures..

**Explosion hazard:** Product is not explosive.

**Reactivity:** Product is stable.

#### Advice For Firefighters

**Precautionary measures fire:** Not available

**Firefighting instructions:** Exercise caution when fighting any chemical fire.

**Protection during firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. Firefighters should wear full protective gear.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Oxides of tin.

# Econo-IRA

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Reference To Other Sections

Refer to section 9 for flammability properties.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### Personal Precautions, Protective Equipment And Emergency Procedures

**General measures:** Handle in accordance with good industrial hygiene and safety practice.

#### For Non-Emergency Personnel

**Protective equipment:** Use appropriate personal protection equipment (PPE).

**Emergency procedures:** Evacuate unnecessary personnel.

#### For Emergency Personnel

**Protective equipment:** Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE).

**Emergency procedures:** Ventilate area.

### Environmental Precautions

Prevent entry to sewers and public waters.

### Methods And Material For Containment And Cleaning Up

**For containment:** Absorb and/or contain spill with inert material, then place in suitable container.

**Methods for cleaning up:** Clear up spills immediately and dispose of waste safely.

### Reference To Other Sections

See heading 8, Exposure Controls and Personal Protection.

## **SECTION 7: HANDLING AND STORAGE**

### Precautions For Safe Handling

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product.

### Conditions For Safe Storage, Including Any Incompatibilities

**Storage conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

**Incompatible materials:** Strong acids. Strong bases. Strong oxidizers.

### Specific End Use(s)

Iron control agent\

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### Control Parameters

<b>Hydrogen chloride (7647-01-0)</b>		
Mexico	OEL Ceiling (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
Mexico	OEL Ceiling (ppm)	5 ppm
USA ACGIH	ACGIH Ceiling (ppm)	2 ppm
USA OSHA	OSHA PEL (Ceiling) (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm
USA NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (ceiling) (ppm)	5 ppm
USA IDLH	US IDLH (ppm)	50 ppm
Alberta	OEL Ceiling (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Alberta	OEL Ceiling (ppm)	2 ppm
British Columbia	OEL Ceiling (ppm)	2 ppm
Manitoba	OEL Ceiling (ppm)	2 ppm
New Brunswick	OEL Ceiling (mg/m <sup>3</sup> )	7.5 mg/m <sup>3</sup>
New Brunswick	OEL Ceiling (ppm)	5 ppm
Newfoundland & Labrador	OEL Ceiling (ppm)	2 ppm
Nova Scotia	OEL Ceiling (ppm)	2 ppm

# Econo-IRA

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Nunavut	OEL Ceiling (mg/m <sup>3</sup> )	7.5 mg/m <sup>3</sup>
Nunavut	OEL Ceiling (ppm)	5 ppm
Northwest Territories	OEL Ceiling (mg/m <sup>3</sup> )	7.5 mg/m <sup>3</sup>
Northwest Territories	OEL Ceiling (ppm)	5 ppm
Ontario	OEL Ceiling (ppm)	2 ppm
Prince Edward Island	OEL Ceiling (ppm)	2 ppm
Québec	PLAFOND (mg/m <sup>3</sup> )	7.5 mg/m <sup>3</sup>
Québec	PLAFOND (ppm)	5 ppm
Saskatchewan	OEL Ceiling (ppm)	2 ppm
Yukon	OEL Ceiling (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
Yukon	OEL Ceiling (ppm)	5 ppm

### Exposure Controls

**Appropriate engineering controls:** Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Ensure exposure is below occupational exposure limits (where available). Ensure all national/local regulations are observed.

**Personal protective equipment:** Gloves. Protective goggles. Protective clothing.



**Materials for protective clothing:** Chemically resistant materials and fabrics.

**Hand protection:** Wear chemically resistant protective gloves.

**Eye protection:** Chemical goggles or safety glasses.

**Skin and body protection:** Wear suitable protective clothing.

**Respiratory protection:** If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

**Other information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information On Basic Physical And Chemical Properties

Physical state	: Liquid
Appearance	: Transparent
Odour	: Not available
Odour threshold	: Not available
pH	: < 1
Relative evaporation rate (butylacetate=1)	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: 131 °C (267.8 °F)
Flash point	: > 100 °C (212 °F)
Auto-ignition temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower flammable limit	: Not available
Upper flammable limit	: Not available
Vapour pressure	: Not available
Relative vapour density at 20 °C	: Not available
Relative density	: Not available
Specific gravity density	: 1.6 g/ml

# Econo-IRA

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>Solubility</b>	: Not available
<b>Log Pow</b>	: Not available
<b>Log Kow</b>	: Not available
<b>Viscosity, kinematic</b>	: Not available
<b>Viscosity, dynamic</b>	: Not available
<b>Explosion data - sensitivity to mechanical impact</b>	: Not available
<b>Explosion data - sensitivity to static discharge</b>	: Not available

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity** Product is stable.

**Chemical Stability** Stable at standard temperature and pressure.

**Possibility Of Hazardous Reactions** Hazardous polymerization will not occur.

**Conditions To Avoid** Direct sunlight. Extremely high or low temperatures.

**Incompatible Materials** Strong acids. Strong bases. Strong oxidizers.

**Hazardous Decomposition Products** Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Hydrogen chloride. Oxides of tin.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information On Toxicological Effects - Product

**Acute toxicity** : Harmful if swallowed.

**LD50 and LC50 Data** Not available

**Skin corrosion/irritation:** Causes skin irritation. pH: < 1

**Serious eye damage/irritation:** Causes serious eye irritation. pH: < 1

**Respiratory or skin sensitisation:** Not classified

**Germ cell mutagenicity:** Not classified

**Teratogenicity:** Not available

**Carcinogenicity:** Not classified

**Specific target organ toxicity (repeated exposure):** Not classified

**Reproductive toxicity:** Not classified

**Specific target organ toxicity (single exposure):** Not classified

**Aspiration hazard:** Not classified

**Potential Adverse human health effects and symptoms:** Harmful if swallowed.

**Symptoms/injuries after inhalation:** May cause irritation to the respiratory tract.

**Symptoms/injuries after skin contact:** Causes skin irritation.

**Symptoms/injuries after eye contact:** Causes serious eye irritation.

**Symptoms/injuries after ingestion:** Swallowing a small quantity of this material will result in serious health hazard.

#### Information On Toxicological Effects - Ingredient(s)

##### LD50 and LC50 Data

<b>Stannous chloride (7772-99-8)</b>	
LD50 oral rat	700 mg/kg
<b>Hydrogen chloride (7647-01-0)</b>	
LD50 oral rat	700 mg/kg
LD50 dermal rabbit	> 5010 mg/kg
LC50 inhalation rat (ppm)	781 ppm/4h (reported as 3124 ppm/1 h)
<b>Hydrogen chloride (7647-01-0)</b>	
IARC group	3

### SECTION 12: ECOLOGICAL INFORMATION

#### Toxicity

# Econo-IRA

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>Stannous chloride (7772-99-8)</b>	
EC50 Daphnia 1	55 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
<b>Hydrogen chloride (7647-01-0)</b>	
LC50 fishes 1	282 mg/l (Exposure time: 96 h - Species: Gambusia affinis [static])

### **Persistence And Degradability**

<b>Econo-IRA</b>	
Persistence and degradability	Not established.

### **Bioaccumulative Potential**

<b>Econo-IRA</b>	
Bioaccumulative potential	Not established.

### **Mobility In Soil** Not available

### **Other Adverse Effects**

**Other information:** Avoid release to the environment.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste disposal recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

## **SECTION 14: TRANSPORT INFORMATION**

### **In accordance with ICAO/IATA/DOT/TDG**

**UN Number** Not regulated for transport

**UN Proper Shipping Name** Not regulated for transport

**Additional information** Not regulated for transport

**Overland transport** Not regulated for transport

**Transport by sea** Not regulated for transport

**Air transport** Not regulated for transport

## **SECTION 15: REGULATORY INFORMATION**

### **US Federal regulations**

<b>Stannous chloride (7772-99-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Hydrogen chloride (7647-01-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on SARA Section 302 (Specific toxic chemical listings)	
Listed on SARA Section 313 (Specific toxic chemical listings)	
<b>SARA Section 302 Threshold Planning Quantity (TPQ)</b>	500 (gas only)
<b>SARA Section 313 - Emission Reporting</b>	1.0 % (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)

### **Water (7732-18-5)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory
---

### **US State regulations**

<b>Stannous chloride (7772-99-8)</b>	
U.S. - Massachusetts - Right To Know List	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - New Jersey - Special Health Hazards Substances List	
<b>Hydrogen chloride (7647-01-0)</b>	
U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute	
U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic	

# Econo-IRA

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)  
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)  
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)  
U.S. - Delaware - Accidental Release Prevention Regulations - Sufficient Quantities  
U.S. - Delaware - Accidental Release Prevention Regulations - Threshold Quantities  
U.S. - Delaware - Accidental Release Prevention Regulations - Toxic Endpoints  
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities  
U.S. - Florida - Essential Chemicals List  
U.S. - Hawaii - Occupational Exposure Limits - Ceilings  
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations  
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)  
U.S. - Idaho - Occupational Exposure Limits - Ceilings  
U.S. - Illinois - Toxic Air Contaminants  
U.S. - Louisiana - Reportable Quantity List for Pollutants  
U.S. - Maine - Air Pollutants - Hazardous Air Pollutants  
U.S. - Massachusetts - Allowable Ambient Limits (AALs)  
U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs)  
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1  
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2  
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity  
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1  
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2  
U.S. - Massachusetts - Right To Know List  
U.S. - Massachusetts - Threshold Effects Exposure Limits (TELs)  
U.S. - Massachusetts - Toxics Use Reduction Act  
U.S. - Michigan - Occupational Exposure Limits - Ceilings  
U.S. - Michigan - Polluting Materials List  
U.S. - Michigan - Process Safety Management Highly Hazardous Chemicals  
U.S. - Minnesota - Chemicals of High Concern  
U.S. - Minnesota - Hazardous Substance List  
U.S. - Minnesota - Permissible Exposure Limits - Ceilings  
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour  
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual  
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances  
U.S. - New Jersey - Environmental Hazardous Substances List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - New Jersey - Special Health Hazards Substances List  
U.S. - New Jersey - TCPA - Extraordinarily Hazardous Substances (EHS)  
U.S. - New York - Occupational Exposure Limits - Ceilings  
U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances  
U.S. - North Carolina - Control of Toxic Air Pollutants  
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour  
U.S. - Ohio - Accidental Release Prevention - Threshold Quantities  
U.S. - Ohio - Extremely Hazardous Substances - Threshold Quantities  
U.S. - Oregon - Permissible Exposure Limits - Ceilings  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 1-Hour  
U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - Annual  
U.S. - South Carolina - Toxic Air Pollutants - Maximum Allowable Concentrations  
U.S. - South Carolina - Toxic Air Pollutants - Pollutant Categories  
U.S. - Tennessee - Occupational Exposure Limits - Ceilings

# Econo-IRA

## Safety Data Sheet

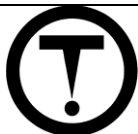
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

U.S. - Texas - Effects Screening Levels - Long Term  
 U.S. - Texas - Effects Screening Levels - Short Term  
 U.S. - Vermont - Permissible Exposure Limits - Ceilings  
 U.S. - Washington - Permissible Exposure Limits - Ceilings  
 U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet  
 U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet  
 U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater  
 U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet  
 U.S. - Wyoming - Process Safety Management - Highly Hazardous Chemicals

### Canadian regulations

#### Econo-IRA

WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
----------------------	---



#### Stannous chloride (7772-99-8)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on the Canadian Ingredient Disclosure List

#### Hydrogen chloride (7647-01-0)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on the Canadian Ingredient Disclosure List

WHMIS Classification	Class A - Compressed Gas Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class E - Corrosive Material
----------------------	--

#### Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
----------------------	---

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

## SECTION 16: OTHER INFORMATION

### Indication of changes

: Revision date.

### Other information

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### GHS Full Text Phrases:

Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr. 1A	skin corrosion/irritation Category 1A
Skin Irrit. 2	skin corrosion/irritation Category 2
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation



# Econo-IRA

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled

### Party Responsible For The Preparation Of This Document:

Economy Polymers & Chemicals  
435 E. Anderson Road Houston, TX 77047  
713-723-8416; 1-800-231-2066

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS US 2012 & WHMIS