

**LEAR CHEMICAL RESEARCH CORP.**  
**P.O. Box 1040 Station B - Mississauga, Ontario L4Y 3W3**

**MATERIAL SAFETY DATA SHEET**

Emergency Telephone Number: 800-256-2548 (day) 905-890-3466 (night)

Fax Number: 905-564-7077

Poison Control Center: Poisons Alert System

**SECTION I - PRODUCT IDENTIFICATION & USE**

**Product Name:** CORROSION BLOCK® NON-FLAMMABLE AEROSOL

**Product Code:** 20012

**Company ID:** Manufacturer-Lear Chemical Research Corp.

**Application:** CORROSION BLOCK® is an industrial product designed to prevent and treat corrosion on ferrous and non-ferrous metals, protect electronic equipment, and to lubricant/penetrate mechanized parts.

**SECTION II - COMPOSITION**

**Chemical Composition:** Corrosion Block is a proprietary blend of ultra pure synthetic and organic Hydrocarbons. Toxicology testing has been performed as a complete complex mixture (prior to aerosolizing) and is considered non-toxic by EPA /OECD guidelines.

**SECTION III - HAZARDOUS COMPONENTS**

Chemical Names:	CAS #	OSHA/ACGIH	% vol
Corrosion Block	NA	5 mg/m <sup>3</sup> (TWA) oil mist	90-95
Tetrafluoroethane 1,1,1,2 (propellant)	811-97-2	PEL/TLV None established 1000 ppm TWA (suggested)	5-10

**SECTION IV - PHYSICAL/ CHEMICAL CHARACTERISTICS**

**Boiling Point:** >212 F° (aerosol concentrate)

**Specific Gravity** (H<sup>2</sup>O=1): .92

**Vapor Pressure:** NA

**Melting Point** (Deg F): not applicable

**Vapor Density:** Heavier than air (Air=1)

**Evaporation Rate:** Slower (Butyl acetate=1)

**Solubility:** Slight emulsification with H<sup>2</sup>O

**Odor:** Fresh Scent

**Appearance:** Turquoise Aerosol Liquid

**pH:** not determined

**SECTION V - FIRE AND EXPLOSION HAZARD DATA**

**Product:** Non-flammable Aerosol **Auto-ignition Temp.** >410 F°

**Flash Point:** Flame extension 0 cm.

**Flammable Limits:** Not applicable

**Extinguishing Media:** Use media appropriate for surrounding material.

**Fire Fighting Procedures:** Cool containers with water spray to prevent pressure build-up, auto-ignition or explosion. Self Contained Breathing Apparatus (SCBA) may be required if containers rupture under thermal conditions.

**Fire Explosion Hazards:** Aerosol cans are an explosion risk when exposed to fire.

**Fire Hazard Identification:** NFPA NPCA-HMIS Health -1 Flammability-0 Reactivity-1

**SECTION VI - REACTIVITY DATA**

**Stability:** Stable

**Incompatibility:** Avoid Oxidizing materials (Liquid or compressed oxygen, peroxides, chlorine), strong alkalis.

**Hazardous Decomposition:** Thermal conditions produce normal products of combustion including: Hydrogen fluoride, Carbon Oxides (CO- CO<sup>2</sup>), Nitrogen oxides (NO<sup>2</sup>-NO), Sulfur oxides (SO<sup>2</sup>SO<sub>3</sub>)

**Polymerization:** Will not occur

## SECTION VII - TOXICOLOGICAL PROPERTIES

Corrosion Block Liquid has been tested (oral, eye, dermal) as a complete mixture and is considered "Non Toxic" according to EPA/OECD and FHSA guidelines.

### Primary Routes of entry:

**Acute Oral:** LD50 > 5000 mg/kg

**Acute Dermal:** LD50 > 5000 mg/kg

**Acute Eye:** LC50 > 5000 mg/kg

**Acute Vapor (est)** LC50 > 5000 ppm -Rat-Aliphatic hydrocarbon  
LC50 > 5000 ppm -Rat-Petroleum distillate

### Tetrafluoroethane 1, 1, 1, 2

**Acute Dermal:** None determined

**Acute Eye:** None determined

**Carcinogenicity:** Corrosion Block Ingredients:  
Tetrafluoroethane 1,1,1,2:

**Acute Inhal.** LC50 > 500,000 ppm (Rat)

Non-carcinogenic, according to NTP, IARC, OSHA or ACGIH.  
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**Sensitization:** Non-sensitizer

**Mutagenic effects:** No

**Reproductive:** No

**Tetragenic:** No

**Developmental:** No

## POTENTIAL EFFECTS OF OVEREXPOSURE:

**Inhalation:** May cause headache, nausea, or dizziness. Gross overexposure to vapor may cause CNS depression or confusion. Tetrafluoroethane is rapidly equilibrated in tissue, after inhalation, and eliminated with expelled air. May act as simple asphyxiant if air is displaced by vapor.

**Skin:** May cause drying, chapping of skin. Chilling sensation with liquid evaporation.

**Eyes:** May cause redness of eyes and tearing. Chilling sensation with liquid evaporation.

**Ingestion:** Not likely to occur. However should small amounts be ingested then liquid may cause irritation to mouth & throat. Aspiration into the lungs may cause chemical pneumonitis, which can be fatal.

## SECTION VIII - EMERGENCY AND FIRST AID PROCEDURES

**Skin:** Remove excess by wiping, followed by washing with soap and water.

**Eyes:** Copious warm water flush for 15 minutes, lifting upper and lower lids. If irritation persists contact a physician.

**Inhalation:** Evacuate to fresh air. If breathing is difficult administer oxygen. If breathing stops apply CPR and call a physician.

**Ingestion:** Not likely to occur. However should it occur: **DO NOT INDUCE VOMITING.** Give 1/2 pint of milk to drink. If vomiting takes place naturally, lean victim forward to prevent aspiration into lungs. Aspiration into the lungs may cause chemical pneumonitis, which can be fatal. Physician's assessment is mandatory. **Note to Physician: Consult standard literature for Hydrocarbon poison.**

## SECTION IX - PREVENTIVE MEASURES

**Spills/Leaks:** Absorb using inert material (dry clay, commercial sorbents) and collect residue into suitable disposal container.

**Waste Disposal:** Dispose in approved landfill site or incinerate at licensed waste reclaim facility. Follow all Local, State and Federal Requirements. See **Section X** for further instructions.

**Storage:** Contents under pressure. Do not store above 120 F. Store in well ventilated area.

**Respiratory Protection:** None normally needed - unless atomizing in enclosed space, then use approved NIOSH organic, mist/vapor respirator.

**Protective Equipment:** Not applicable for aerosol containers.

**Hygienic Practices:** Wash hands and face with soap and water after use. Launder soiled clothing.

**SECTION X - REGULATORY INFORMATION**

<b>U.S. Federal Regulations:</b>	<b>Tetrafluoroethane 1, 1, 1, 2</b>	<b>Zinc Compounds</b>
<b>TSCA Inventory:</b>	All components included	Reported/Included
<b>SARA Extreme Hazard:</b>	NO	NO
<b>CERCLA:</b>	NO	NO
<b>SARA Toxic Chemical:</b>	NO	YES
<b>TITLE III Hazard Classification Section 311, 312:</b>		<b>Section 313:</b>
<b>Fire:</b> No	<b>Chronic:</b> Yes	<b>Pressure:</b> Yes
<b>Reactivity:</b> No	<b>Acute:</b> Yes	
		CAS#      Name      %-Wt.
		Not applicable      Zinc Compound      < 2

**SECTION XI - TRANSPORTATION INFORMATION**

<b>TDG Road / Rail Classification:</b>	<b>CONSUMER COMMODITY</b>		
<b>DOT/IMO Label:</b>	<b>NON-FLAMMABLE GAS</b>		
<b>HAZARD CLASS:</b>	<b>2</b>		
<b>AIR-IATA Class:</b>	<b>Aerosols, non-flammable, n.o.s.</b>	<b>Class 2</b>	<b>UN1950 Non-flammable gas</b>
	<b>(Each not exceeding 1L capacity)</b>		<b>(Hazard label-green diamond)</b>

Lear Chemical and its affiliates assume no responsibility for injury to anyone caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, Lear Chemical Research Corp. and affiliates assume no responsibility for injury to anyone caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee and third persons assume the risk in their use of the material.

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Prepared by: Lear Chemical Research Corp.