

MATERIAL SAFETY DATA SHEET

According to CHIP 2002 & Directive 91/155 EEC

Emergency Telephone Number: 120 257-7280 (day)120-251-1282 (night) Fax Number: 120-257-3322
Poison Control Center: Alert System

SECTION I - PRODUCT IDENTIFICATION & USE

Product Name: CORROSION BLOCK® NON-FLAMMABLE AEROSOL

Product Code: 20012

Manufacturer- Lear Chemical Research Corp.
PO Box 1040 Mississauga ON Canada
905 564-0018 905-564-7077 (fax)

Distributor UK- World Wide Aviation
41 Avenue Moordown, Bournemouth Dorset UK
1202 511282 120-257-3322 (fax)

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

SECTION II - COMPOSITION

Chemical Names:	CAS #	OSHA/ACGIH	% vol
A mixture of ultra pure paraffinic hydrocarbons and additives.	Proprietary	NA	70-100
Tetrafluoroethane 1,1,1,2 (propellant)	811-97-2	PEL/TLV None established	5-10

SECTION III - HAZARDS IDENTIFIED

Adverse Human Effects: May cause slight/brief irritation if sprayed into the eyes.
Fire and Explosion Risk: Explosion hazard if aerosol can is heated beyond 49C° /120 F°
Chemical Reaction Hazard: Hazardous reactions may occur on contact with certain chemicals (Refer to complete list of incompatible materials in section 10 "Stability and Reactivity")

SECTION IV - 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: Not likely to occur. 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 V- FIRE AND EXPLOSION HAZARD DATA

Product: Non-flammable Aerosol **Auto-ignition Temp.** >210C°/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.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Spills/Leaks:	Absorb using inert material (dry clay, commercial sorbents) and collect residue into suitable disposal container. Dispose in approved landfill site or incinerate at licensed waste reclaim facility. Follow all Local or Federal Requirements.
Waste Disposal:	Empty aerosol cans are recyclable
Storage:	Contents under pressure. Do not store above 49C° /120 F°. Store in well ventilated area.
Respiratory Protection:	None normally needed.
Protective Equipment:	Not applicable for aerosol containers.
Hygienic Practices:	Wash hands and face with soap and water after use. Launder soiled clothing.

SECTION VII - HANDLING AND STORAGE

Storages	Do not store aerosol cans above 49C° or 120F°
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SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION:

Inhalation:	Gross overexposure to vapor may cause headache, nausea, dizziness, 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 totally 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 slight irritation to mouth & throat. Aspiration into the lungs may cause chemical pneumonitis, which can be fatal.

SECTION IX - PHYSICAL/ CHEMICAL CHARACTERISTICS

Boiling Point:	>100C°/ 212 F° (aerosol concentrate)	Specific Gravity (H²O=1):	.92
Vapor Pressure:	NA	Melting Point (Deg C/F):	not applicable
Vapor Density:	Heavier than air (Air=1)	Evaporation Rate:	Slower (Butyl acetate=1)
Solubility:	Slight emulsification with H ² O	Odor:	Fresh Scent
Appearance:	Turquoise Aerosol Liquid	pH:	not determined

SECTION X - STABILITY AND REACTIVITY

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 ²), Nitrogen oxides (NO ² -NO), Sulfur oxides (SO ² SO ₃)
Polymerization:	Will not occur

SECTION XI - TOXICOLOGICAL INFORMATION

Corrosion Block Oil has been tested (oral, eye, dermal) as a complete mixture and is considered "Non Toxic".

Primary Routes of entry:

Acute Oral:	LD50 > 5000 mg/kg	Acute Eye:	LC50 > 5000 mg/kg
Acute Dermal:	LD50 > 5000 mg/kg	Acute Vapor (estimated)	LC50 > 5000 ppm -Rat-Aliphatic hydrocarbon LC50 > 5000 ppm -Rat-Petroleum distillate

Tetrafluoroethane 1, 1, 1, 2

Acute Dermal:	None determined	Acute Inhal.	LC50 > 500,000 ppm (Rat)
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Acute Eye:	None determined		
Carcinogenicity:	Corrosion Block Oil: Tetrafluoroethane 1,1,1,2:		Non-carcinogenic, according to NTP, IARC, OSHA or ACGIH. Non-carcinogenic, according to NTP, IARC, OSHA or ACGIH.

Sensitization:	Non-sensitizer		
Mutagenic effects:	No	Tetragenic:	No
Reproductive:	No	Developmental:	No

SECTION XII - ECOLOGICAL INFORMATION

Water hazard classification: generally not hazardous for water

SECTION XIII - DISPOSAL CONSIDERATIONS

Empty Aerosol Can is recyclable.

SECTION XIV - TRANSPORT INFORMATION

Land transport ADR/RID (cross-border)

ADR/RIC-GGVS/E Class: 5
Substance No. UN1950
Correct Technical Name Aerosols, non-flammable

Maritime transport IMDG

IMDG Class: 2.2
UN-Nr.: 1950
Correct Technical Name Aerosols, non-flammable
Marine pollutant: Not expected to be.

AIR transport ICAO-TI and IATA-DGR

ICAO/IATA Class: 2.2
UN-/ID-N 1950
Correct Technical Name Aerosols, non-flammable

SECTION XV - REGULATORY INFORMATION

Markings according to EU guidelines

The product has been classified and marked in accordance with EU Directives

Hazard designation:

E – explosive



Risk Phrases

R5 - Heating may cause an explosion
R44 - Risk of explosion if heated under confinement

S-Phrases

S2 - Keep out of reach of children
S47 - Keep at temperature not exceeding 50C° 120F°
S62 - If swallowed, do not induce vomiting, seek medical attention immediately and show this container or label

Markings according to EU guidelines:

Observe the general safety regulations when handling chemicals

SECTION XVI – OTHER INFORMATION

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.