SECTION I - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: **Corrosion Block® Aerosol**
Product Code: **20012**

Use of Substance/Preparation: Corrosion Block® is an industrial product designed to prevent and treat corrosion on non-ferrous and ferrous metals, protect electronic equipment, and to lubricate/penetrate mechanized parts.
Uses advised against: None unless specified elsewhere

Manufacturer: **Lear Chemical Research Corp.**
6182A Kestrel Road
Mississauga, ON Canada L5T 1Z2
Telephone: 905 564-0018 905-564-7077 (fax)
Email: info@learchem.com
www.learchem.com

Emergency Telephone: **1 800 535-5053 (Canada & US)**
1 352 323-3500 (International)

SECTION 2 – HAZARDS IDENTIFICATION

General hazard statement

Substances present at a concentration below the minimum danger threshold.
Read Label and Use as Directed
May cause slight eye redness (Mixture Tested < Cat2B)
May cause skin dryness (Mixture Tested < Cat3)
May cause laxative effect if swallowed. Do not induce vomiting.
Using as directed Not Expected to be Aspiration Hazard (>24mm²/s @40°C)

Classification of the substance or mixture

GHS classification in accordance with: WHMIS 2015
Category 4, Flammable liquid
Category 3, Aerosol
Signal Word: **WARNING**
Labels: None Required

Hazard statements:	H227 – Flammable liquid H229 – Pressurized container: May burst if heated
Precautionary Statements – Prevention:	P102 – Keep away from children P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. P211 – Don not spray on open flame or other ignition source P280 – Wash thoroughly after handling. Manufacturer specifies No special PPE.
Precautionary Statements – Response	P370+P378 - In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
Precautionary Statements – Storage:	P403+P235 – Store in a well ventilated place. Keep cool. P410 + P412 – Protect from extreme sunlight conditions. Do not expose to temperatures exceeding 50°C / 122°F.
Precautionary Statements – Disposal:	P251 – Do not pierce or burn, even after use P501 - Dispose of contents/container in accordance with local, regional, national, and/or international regulations

Other hazards which do not result in classification
None known.

Statement regarding ingredients of unknown toxicity
No data available.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous substances present: MIXTURE
Substances present at a concentration below the minimum danger threshold:

NAME:	CAS	EC	Concentration % (weight)	Special Notes
Hydrotreated neutral oil	72623-85-9	276-736-3	70-85%	<0.1% DMSO w/w extract
Stoddard solvent	8052-41-3	232-489-3	5-9%	
Tetrafluoropropene 1,3,3,3 (propellant)	29118-24-9	810-135-4	1-3%	
Carbon Dioxide (propellant)	124-38-9	204-696-9	1-3%	

SECTION 4 - FIRST AID MEASURES

Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, obtain medical attention.

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

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion: Unlikely route of exposure.

Most important symptoms/effects, acute and delayed
See Section 2 and Section 11.

Indication of any immediate medical attention and special treatment needed
Unlikely to be required but if necessary, treat symptomatically.

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media:
Suitable Extinguishing Media: CO_2, Dry Chemical, Foam, Water Spray
Un-Suitable Extinguishing Media: Water Jet which might spread flames

Special Hazards arising from the substance or mixture:
Fire hazard: NOT classified as a flammable aerosol
Explosion hazard: Product is not explosive. Pressurized container: May burst if heated
Reactivity: None to our knowledge
Advice for firefighters:
Firefighting instructions: 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.
Explosion hazard**:** Aerosol containers are an explosion risk when exposed to fire

SECTION 6 - ACCIDENTAL RELEASE MEASURES

The product is an aerosol. It is unlikely to present spillage or leakage hazard. In case of rupture, released content should be contained as any other solvent spill.

Personal precautions, protective equipment and emergency procedures:
Eliminate sources of ignition. Stop leak if you can without risk. Keep unnecessary personnel away from spill slip hazard.

Environmental precautions: Prevent spill into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up: Collect spillage and dispose of according to Section 13. Absorb spillages onto any suitable absorbent material. Scoop absorbed substance into closing containers. Wash clothing and equipment after handling.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling
Pressurized container; Do not pierce or burn, even after use. Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities
Store in a well ventilated place. Keep container tightly closed. Store between the following temperatures: 40 and 120 Fahrenheit and out of direct sunlight and away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of reach of children.

Specific end use(s)
Apart from the uses mentioned in section 1 no other specific uses are stipulated

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION:

CAS: 8052-41-3
Stoddard Solvent

CAS: 72623-85-9 (EC: 276-736-3)
Lubricating oils (petroleum), C20 -50, hydrotreated neutral oil-based, high-viscosity, if they contain > 3 % w/w DMSO extract

Appropriate engineering controls
Not normally required. Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection
Distribution, Workplace and Household Settings: No special protective equipment required

Skin protection
Distribution, Workplace and Household Settings: No special protective equipment required.

Respiratory protection
Distribution, Workplace and Household Settings: No special protective equipment required.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance:	Aerosol
Odor:	Characteristic
Odor Threshold:	Not established
pH	7
Melting / freezing point	No data available
Boiling point / boiling range	>100°C/ 212°F
Flash Point	79.4°C /175°F PMCC
Evaporation Rate	Slower (Butyl acetate=1)
Flammability (solid, gas)	No data available
Flammability Limit in Air	Solvent Component Only
Upper flammability limit	UEL: 6.0
Lower flammability limit	LEL: 1.0
Vapor pressure	No data available
Vapor density	Heavier than air (Air=1)
Specific Gravity	0.90
Water Solubility	Slight with agitation
Solubility in other solvents	Soluble in Naphtha
Partition coefficient n-octanol/water:	No data available
Auto ignition temperature	>210°C/410°F
Decomposition temperature	No data available
Kinematic viscosity	25 cSt @ 40°C
Dynamic viscosity	No data available
VOC Content (%)	90gm/l
Other Information	No other information available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity: None under normal use conditions.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: None under normal use conditions.

Conditions to avoid: Heat and extreme sunlight conditions.

Incompatible materials: Oxidizing substances.

Hazardous decomposition products: Thermal conditions produce normal products of combustion e.g.: carbon oxides, nitrogen oxides, sulfur oxides.

SECTION 11 - TOXICOLOGICAL INFORMATION

CORROSION BLOCK LIQUID HAS BEEN FULLY TESTED AS A COMPLETE MIXTURE FOR ORAL, EYE AND DERMAL TOXICITY. SUPPORTING DATA BASED ON THOSE EVALUATIONS. ACUTE TOXICITY IS AT OR ABOVE CATEGORY 4.

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

Information on toxicological effects:

Acute toxicity	Poses no Acute toxicity hazards.
Skin corrosion/irritation	None found.
Serious eye damage/irritation	Slight eye irritation (reversible)
Respiratory or skin sensitization	None found.
Germ cell mutagenicity	Based on available data, classification data are not met

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity	No data available.
Summary of evaluation of the CMR properties	No data available.
STOT-single exposure	Insignificant effects documented that do not justify STOT Classification.
STOT-repeated exposure	Insignificant effects documented that do not justify STOT Classification.
Aspiration hazard	Not Expected to be Aspiration Hazard (>24mm2/s @40°C)

Tetrafluoropropene 1,3,3,3	**Acute Vapor:**	Potential acute Inhalation – no know significant effects
	Acute Eye:	Possible eye burns, similar to frostbite
	Acute Dermal:	Possible skin burns, similar to frostbite

SECTION 12- ECOLOGICAL INFORMATION

Toxicity	No data available.
Persistence and degradability	Petroleum components are biodegradable in marine and soil environments.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other adverse effects	No data available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal of the product: Disposal should be in accordance with local, state and federal regulations. Do not landfill.
Waste treatment methods: Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Non-empty aerosol: Dispose of waste in an approved waste disposal facility. Do NOT landfill.
Sewage disposal Treat as used oil.
Other disposal recommendations Disposal should be in accordance with local, state or national legislation.

SECTION 14 - TRANSPORT INFORMATION

DOT	**Proper Shipping Name**	CONSUMER COMMODITY
	Emergency Response Guide Number	126
TDG	**UN-No.**	UN1950
	Proper Shipping Name	AEROSOLS
	Hazard Class	2.2
	Description	UN1950, AEROSOLS, 2.2
IATA	**UN-No.**	UN1950
	Proper Shipping Name	AEROSOLS, NON-FLAMMABLE
	Hazard Class	2.2
	Description	UN1950, AEROSOLS, NON-FLAMMABLE, 2.2
IMDG/IMO	**UN-No.**	UN1950
	Proper Shipping Name	AEROSOLS
	Hazard Class	2.2
	EmS-No.	F-D, S-U
	Description	UN1950, AEROSOLS, 2.2
RID / ADR	**UN-No.**	UN1950
	Proper Shipping Name	AEROSOLS
	Hazard Class	2.2
	Classification code	5A
	Description	UN1950 AEROSOLS, 2.2
ADN	**UN-No.**	UN1950
	Proper Shipping Name	AEROSOLS
	Hazard Class	2.2
	Classification code	5A
	Special Provisions	190, 327, 344, 625
	Description	UN1950 AEROSOLS, 2.2
	Hazard Labels	2.2
	Limited Quantity	1 L
	Ventilation	VE04

LABEL





Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

SECTION 15 - REGULATORY INFORMATION

This preparation was classified in compliance with GHS Directives and is not known to be classified on any EC lists or other source literature.

WHMIS	Not Controlled		
U.S. Federal Regulations:	Not Regulated		
TSCA Inventory (USA)	Reported/Included		
DSL (Canada)	Reported /Included		
SARA 302/355 Extreme Hazard:	NO		
CERCLA:	NO		
SARA 313 Toxic Chemical:	NO		
SARA 311/312 Hazardous:	NO		
Prop 65	No to All		
ELINCS (Europe)	No		
ENCS (Japan)	Yes		
AICS (Australia)	Yes		
NFPA STD.704	Health -1	Flammability-0	Reactivity-1
NFPA STD.321:	Combustible Liquid, Class III 3A		
HMIS	Health -1	Flammability-0	Reactivity-1

SECTION 16 – OTHER INFORMATION

V0007 - April 29, 2021 – Revisions
Section 4, 5, 8 & 12: information updated
Section 14: ORM-D Consumer commodity removed. Limited QTY Symbol added.
Section 11: Toxicological Information clarified

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