

CORROSION PROTECTION &
SOLUTIONS LLC

Safety Data Sheet

Corrosion Zero (Bulk)

1 Identification

Product identifier

Trade name: Corrosion Zero (Bulk)

Product Number: 202 (12-300)

Application of the substance / the mixture: Corrosion Inhibitor

Details of the supplier of the safety data sheet

Manufacturer/Supplier

Corrosion Protection & Solutions LLC DBA Lektro-tech

2300 S. Dock Street, 102

Palmetto, FL 34221

www.lektrotech.com

Emergency telephone number: CHEMTEL INC

Within the USA and Canada: 1-800-255-3924

Outside the USA and International: +01-813-248-0585

2 Hazard(s) identification

Classification of the substance or mixture



GHS08 Health hazard

H333 May be harmful if inhaled H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H350 May cause cancer. H360 May damage fertility.



GHS07

H303 May be harmful if swallowed

H315 Causes skin irritation. H320 Causes eye irritation



GHS09 H412 Harmful to aquatic life with long lasting effects.

Label elements

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS08



GHS07



GHS09

Signal word Danger

Hazard-determining components of labeling:

n-Propyl Bromide (stabilized)

Hazard statements

DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD!

Harmful if swallowed or if inhaled.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements Wear respiratory protection.

Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling.

Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

If experiencing respiratory symptoms: Call a poison center/doctor. If swallowed: Call a poison center/doctor if you feel unwell.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Rinse mouth.

nPB is not listed as a carcinogen by NTP or IARC. NTP is currently reviewing scientific data to determine if nPb should be listed in the ROC. High concentrations are irritating to the respiratory tract and may cause headache, dizziness, nausea, vomiting or narcosis. Chronic overexposure at high levels may cause adverse effects in the central nervous system, reproductive system, respiratory system, kidney and liver. Persons having pre-existing diseases of the lungs, eyes or skin may have an increased susceptibility to the hazards of excessive exposure.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0-4)



Health = 3

Fire = 0

Reactivity = 0

HMIS ratings (scale 0-4)

HEALTH	3	Health = 3
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/Information on ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions

Trade secret information: A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Dangerous components		
106-94-5	n-Propyl Bromide (Stablized)	>94%
75-65-5	Trade Secret	>0.6%
106-88-7	Trade Secret	>0.6%
8052-41-3	Mineral spirits	1-<5%
64742-52-5	Mineral Oil	5-<10%
64741-89-5	Mineral Oil	1-<5%
64742-53-6	Mineral Oil	1-<5%
64742-65-0	Mineral Oil	1-<5%
Confidential	Calcium sulfonate	<0.1%

Confidential

Polyalphaolefin

< 2%

4 First-aid measures

Description of first aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air. If required, provide artificial respiration. Prolonged or repeated overexposure is anesthetic. May cause irritation of the respiratory tract, or acute nervous system depression characterized by headache, dizziness, staggering gait, confusion or death. Irritation of the mucous membranes, coughing and dyspnea are also possible. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Remove with soap & water, rinsing repeatedly for at least 15 minutes. If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. Including under eyelids.

After swallowing:

Do not induce vomiting, immediately have the victim drink plenty of water. Keep airways free. Call a doctor immediately.

Information for doctor:

Most important symptoms and effects, both acute and delayed: No further relevant information available.

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

No further relevant information available.

Advice for firefighters

Protective equipment: Mouth respiratory protective device.

6 Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:

KEEP OUT OF THE REACH OF CHILDREN.

Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires:

Keep ignition sources away – Do not smoke.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions: Keep receptacle tightly sealed.

Do not eat drink or smoke when using this product.

Specific end use(s): No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace	
106-94-5 n-Propyl Bromide (stabilized)	
PEL	Not determined
REL	Not determined
TLV	Not determined

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Goggles recommended during refilling.

9 Physical and chemical properties

Information on basic physical and chemical properties

Form:	Liquid
Color:	Light Amber
Odor:	Characteristic
Odour threshold:	Not determined.

pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined
Boiling point/Boiling range:	(158.6F °F)
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	Not applicable
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	9.7 Vol %
Upper:	12.8 Vol %
Vapor pressure at mm/Hg	130 @ 25 C
Density at 20 °C (68 °F):	1.26 g/cm ³ (10.50 lbs/gal)
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with water	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined
Kinematic:	Not determined
Other information	No further relevant information available.

10 Stability and reactivity

Reactivity

Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions: Violent reactions with strong alkalis and oxidizing agents.

Conditions to avoid: No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Oxides of Carbon, Bromide, Carbonyl Bromide, Hydrogen Bromide may be formed depending on fire conditions.

11 Toxicological information

Information on toxicological effects

Acute toxicity

LD/LC50 values that are relevant for classification:

106-94-5 n-Propyl Bromide (stabilized)

Oral	LD50	4,260 mg/kg
------	------	-------------

Primary irritant effect:

Irritant (skin and eye).

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Carcinogenic categories

IARC (International Agency for Research on	None of the ingredients is listed.
--	------------------------------------

Cancer)	
NTP (National Toxicology Program)	None of the ingredients is listed.
OSHA-Ca (Occupational Safety & Health Administration)	None of the ingredients is listed.

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Ecotoxicological effects:

Remark: May be harmful to fish

Additional ecological information:

General notes: May be harmful to aquatic organisms

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available

13 Disposal considerations

Waste treatment methods

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings

Recommendation: Disposal must be made according to official regulations.

14 Transport information

UN-Number

DOT, ADR, ADN, IMDG, IATA

Not regulated

UN proper shipping name

DOT, ADR, ADN, IMDG, IATA

Not regulated

Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA

Not regulated

Packing group

DOT, ADR, IMDG, IATA

Not regulated

Environmental hazards:

Marine pollutant

No

Special precautions for user:

Not applicable

Transport in bulk according to Annex II of MAR-POL73/78 and the IBC Code

Not applicable

UN "Model Regulation"

Not applicable

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Section 355 (extremely hazardous sub-

None of the ingredients is listed

stances):	
Section 313 (Specific toxic chemical listings):	None of the ingredients is listed
TSCA (Toxic Substances Control Act):	All ingredients are listed

Proposition 65

Chemicals known to cause cancer	None of the ingredients is listed
Chemicals known to cause reproductive toxicity for females:	None of the ingredients is listed
Chemicals known to cause reproductive toxicity for males:	None of the ingredients is listed
Chemicals known to cause developmental toxicity:	None of the ingredients is listed

Carcinogenic categories:

EPA (Environmental Protection Agency)

106-94-5	n-Propyl Bromide (stablized)
TLV (Threshold Limit Value established by ACGIH)	None of the ingredients is listed
NIOSH-Ca (National Institute for Occupational Safety and Health)	None of the ingredients is listed

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms

 GHS08	 GHS07	 GHS509
--	--	---

Signal word Danger

Hazard-determining components of labeling:

n-Propyl Bromide (stabilized)

Hazard statements

Harmful if swallowed or if inhaled.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements Wear respiratory protection.

Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling.

Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

If experiencing respiratory symptoms: Call a poison center/doctor. If swallowed: Call a poison center/doctor if you feel unwell.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Rinse mouth.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Chemical safety assessment:A Chemical Safety Assessment has not been carried out.

16 Other information

The information contained herein is based on available data from reliable sources and is accurate to the best of Corrosion Protection & Solutions LLC knowledge at the time of this publication. Corrosion Protection & Solutions LLC makes no warranty, expressed or implied, of merchantability or fitness for a particular purpose, course of performance or usage of trade. The user is solely responsible for determining the suitability and completeness of such information for their particular application and for adopting appropriate safety precautions. Physical properties listed within are typical values based on samples tested and should not be construed as guaranteed analysis of any specific lot or as specifications for the product. This information is not intended to be all-inclusive as to the manner and conditions of use, handling and

storage. Other factors may involve additional safety or performance considerations. This data is not to be taken as a warranty or representation for which Corrosion Protection & Solutions LLC assumes legal or financial responsibility.

The data contained herein is based on information currently available to Corrosion Protection & Solutions LLC and is believed to be accurate and reliable. Corrosion Protection & Solutions LLC makes no warranties, expressed or implied, including but not limited to, any implied warranty of merchantability or fitness for a particular purpose, course of performance or usage of trade. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular application. Physical properties listed within are typical values based on samples tested and should not be construed as guaranteed analysis of any specific lot or as specifications for the product. This information is not intended to be all-inclusive as to the manner and conditions of use, handling and storage.

Other factors may involve additional safety or performance considerations. This data is not to be taken as a warranty or representation of which Corrosion Protection & Solutions LLC assumes legal or financial responsibility.