

1. IDENTIFICATION

Product Name: NavGuard™ IV Aerosol
Product Numbers: 30302
Product Type and Use: Corrosion Inhibitor / Moisture Displacer / Lubricant
Manufacturer: Corrosion Technologies
2638 National Drive, Garland, TX 75041
Contact: Telephone: 972-271-7361 Fax: 972-278-9721
Emergency Telephone: CHEMTREC® USA (800) 424-9300
Outside US +1 (703) 527-3887

2. HAZARDS IDENTIFICATION

Hazard Classification

Health Hazard(s)

Skin Irritation Category 2
Eye Irritation Category 2B
Inhalation Category 4

Physical Hazard(s)

Gases Under Pressure Compressed Gas
Flammable Aerosols Category 1

Hazard(s) not otherwise classified

None

Labeling

Signal Word:

DANGER

Pictograms:

Exclamation Mark, Flame, Gas Cylinder



Statements of Hazard

Hazard Statements

Causes skin and eye irritation
Harmful if inhaled
Extremely flammable aerosol
Contains gas under pressure; may explode if heated

Precautionary Statements

Pressurized container: Do not pierce or burn, even after use. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 122°F/50°C. Keep away from heat, hot surfaces, sparks and open flames - No smoking. Avoid breathing mist and vapors. Wear eye protection and protective gloves. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Store locked up. Dispose of contents and container in accordance with applicable regulations.
If on skin: Wash with plenty of water. If skin irritation occurs: get medical advice.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.
If inhaled: Remove person to fresh air and keep comfortable for breathing.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Percent by Wt.
Hydrotreated (mild) heavy naphthenic petroleum distillates	64742-52-5	35-45*
Naphthalenesulfonic acid, dinonyl-, calcium salt (2:1)	57855-77-3	5-10*
C10-C13 Isoalkanes	68551-17-7	15-20*
C10-C14 Isoalkanes	68551-18-8	10-15*
Hydrotreated (mild) heavy naphthenic petroleum distillates	64742-52-5	35-45*
Butane	106-97-8	1-5*
Propane	74-98-6	1-5*

* Exact percentage of composition has been withheld as a trade secret

4. FIRST AID MEASURES

General Advice: Causes skin and eye irritation. Avoid skin and eye contact. Use with adequate ventilation. Avoid breathing mist or vapor; inhalation overexposure may cause dizziness and drowsiness. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Extremely flammable aerosol; keep away from heat, hot surfaces, sparks, hot surfaces and open flame.

Inhalation: Remove from exposure area to fresh air. Give artificial respiration if not breathing. Get medical attention.

Skin Contact: Wipe excess from skin; remove contaminated clothing. Wash from skin with mild soap and water.

Eye Contact: Flush eyes with plenty of water for 15 minutes while holding eyelids open. Seek medical attention if irritation persists.

Ingestion: Give water, DO NOT induce vomiting. No treatment necessary unless large quantities are ingested, then seek medical advice.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Suitable: Carbon Dioxide, Dry Chemical, and Foam

Unsuitable: Alcohol, Alcohol based solutions, any other media not listed above.

Fire Fighting Procedures: As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Unusual Fire and Explosion Hazards: Solvent vapors are heavier than air and may travel to distant, low lying sources of ignition and may ignite and explode. Flame extension: >18 inches, Burnback: > 10 inches

Hazardous Combustion/ Decomposition Products: Oxides of carbon, sulfur, calcium, magnesium and phosphorous

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions / Protective Equipment / Emergency Procedures: Use caution as spills may be slippery. Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition and take precautionary measures against static discharges.

Methods and materials for containment and cleaning up: Do not flush into surface water or sanitary sewer system. Dike and contain spillage. Soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite). Use clean non-sparking tools to collect absorbed material and transfer to a properly labeled container for disposal according to applicable regulations.

7. HANDLING AND STORAGE

HANDLING

Precautions for Safe Handling: Avoid skin and eye contact. Use with adequate ventilation. Avoid breathing mist or vapors. Avoid ignition sources. Do not puncture or incinerate container. Follow all SDS/label precautions even after container is empty due to residue.

STORAGE

Conditions to avoid: Store in a cool, dry, well-ventilated place in the original container. Avoid excess heating, high temperatures, sparks, hot surfaces, open flames and all other sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

Component	ACGIH		OSHA		STEL ppm	STEL mg/m3
	TLV ppm	TLV mg/m3	PEL ppm	PEL mg/m3		
Hydrotreated (mild) heavy naphthenic petroleum distillates	Not est.	5	Not est.	5	Not est.	10
Naphthalenesulfonic acid, dinonyl-, calcium salt (2:1)	Not est.	Not est.	Not est.	Not est.	Not est.	Not est.
1-methoxy-2-propanol	50	Not est.	Not est.	Not est.	100	Not est.
Butane	1000	1800	1000	1800	Not Est.	Not Est.
Propane	1000	1800	1000	1800	Not Est.	Not Est.

Engineering Controls: Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

Personal Protection

Respiratory Protection: None required under normal use conditions. In case of insufficient ventilation and for exposures above occupational exposure limits wear a NIOSH approved air purifying respirator with organic vapor cartridge.

Hand / Skin Protection: Wear impermeable gloves such as neoprene or nitrile rubber gloves. Gauntlets and apron may be worn depending on the extent and duration of exposure.

Eye / Face Protection: Safety glasses with side-shields. An eyewash station should be available to the area of use.

General Hygiene Measures Avoid skin and eye contact. Always wash hands and face before eating, drinking or smoking. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Transparent	Lower Explosive Limit, vol %:	0.7
Physical State:	Non-viscous liquid	Autoignition Temperature:	Not established
Odor:	Hydrocarbon	Percent Volatile by volume:	51.5
Color:	Amber/Lt. Brown	Vapor Density (Air=1) :	>1
Viscosity:	Not established	Evaporation Rate (BuAc=1) :	<0.01
pH:	Not applicable	Vapor Pressure, mmHg @23 °C:	>1 mmHg
Boiling Point/ Range:	>450 °F / 232 °C	Solubility in water:	Insoluble
Melting Point:	Not established	Octanol/Water Partition:	Not established
Flash Point:	>60 °C / >140 °F	VOC Content (g/l) (%):	552 (51.5)
Method:	Cleveland Open Cup	Specific Gravity @15.6 °C:	0.871
Upper Explosive Limit, vol %:	5.3	Pour Point:	-22 °F / -30 °C
		Percent non-volatile by Volume:	48.5

10. STABILITY AND REACTIVITY

Stability: Stable at ambient temperatures.

Conditions to Avoid: Avoid high temperatures, sparks, open flame and all other sources of ignition.

Hazardous Polymerization: Will not occur.

Materials to Avoid: Bases, acids, amines and oxidizing materials.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information: Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death.

Ingredient Information

Hydrotreated (mild) heavy naphthenic petroleum distillates: Orl-rat LD50 >5000 mg/kg, Skn-Rbt LD50 - 2,000 mg/kg, Ihl-rat LC50: >2,000 mg/kg

C10-C13 Isoalkanes: Specific target organ toxicity (One time exposure) Respiratory tract irritation during inhalation

C10-C14 Isoalkanes: Eye: Probability of MLD=0.007(TOPKAT 6.2),
1-methoxy-2-propanol: Ori-rat LD50: >5900 mg/kg, Ihl-rat LC50: 1500 ppm, Skn-rbt LD50: 13000 mg/kg, Skn-rbt: moderate skin irritation, Eye-rbt: eye irritation, Guinea pig maximization test: non-sensitizing,

Propane: Not established

Butane: Not established

Acute Effects

Signs and Symptoms of Overexposure: Skin Irritation, Eye Irritation, Coughing, Sneezing, Dizziness, Drowsiness

Inhalation: May cause coughing and sneezing. Prolonged and repeated inhalation may cause nausea, dizziness and drowsiness.

Skin Contact: Prolonged or repeated contact may cause mild irritation in sensitive individuals.

Eye Contact: May cause stinging, tearing and redness.

Ingestion: May cause nausea, vomiting and diarrhea.

Primary Route(s) of Exposure: Skin, Eyes, Inhalation

Primary Route(s) of Entry: Inhalation, Ingestion

Target Organs: Skin, Eyes, Central Nervous System

Chronic Effects: None known

Carcinogenicity: Highly refined base oil blend (< 3 % DMSO extractable) ACGIH group A4; not classified as human carcinogen.

Medical Conditions Aggravated by Exposure: May aggravate existing skin, eye and respiratory conditions such as asthma and dermatitis.

12. ECOLOGICAL INFORMATION

Product Data: Toxicity to Fish: Not toxic to fish but may coat gill structures resulting in suffocation if spilled in shallow, running water.

Toxicity to Terrestrial Plants: If applied to leaves, may kill grasses and small plants by interfering with transpiration and respiration.

Toxicity to Above-Ground Organisms: May be moderately toxic to amphibians by preventing dermal respiration. May cause gastrointestinal distress in birds and mammals through ingestion.

Ingredient Data: Not established

Elimination Information: Expected to be not readily biodegradable. The major oil component is expected to biodegrade over period of 100-120 days in aerobic environment at temperature above 70 °F (21 °C), however finished product contains components that may persist in the environment. Contains constituents with the potential to bioaccumulate in aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Product: Dispose of in accordance with applicable regulations.

Container: Empty remaining contents. Empty containers should be taken for local recycling, recovery or waste disposal. Empty containers may contain residues. Do not cut, weld, grind, puncture or incinerate empty containers.

14. TRANSPORT INFORMATION

Road Transport

DOT Hazard Class: ORM-D

Sea Transport

IMDG/GGV See Class: Class 2.1

UN-No.: UN1950

Proper Shipping Name: Aerosols, Flammable

Air Transport

ICAO/IATA Class: Class 2.1

UN-No.: UN1950

Shipping Name: Aerosols, Flammable

15. REGULATORY INFORMATION

U.S. Federal Regulations

Toxic Substances Control Act (TSCA): All components are included on the Inventory

Superfund Amendments and Reauthorization Act (SARA) Title III:

Immediate Hazard	Delayed Hazard	Fire Hazard	Pressure Hazard	Reactivity Hazard
Yes	No	Yes	Yes	No

16. OTHER INFORMATION

Prepared by: U.S. Corrosion Technologies, LLC Technical Services Department

Issue Date: 3/26/2020

Supersedes Date: 10/10/2018

Revision Indicator: US v1.2

National Fire Protection Association (704) Health: 1 Flammability: 4 Reactivity: 0 Other:
NFPA 30 B – Category 3 Aerosol

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