Corrosion Technologies
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BULK

NavGuard™ II Safety Data Sheet

1. IDENTIFICATION

1.1 Product Identifier

Product Name:	**NavGuard™ II**
Product Numbers:	30203, 30204, 30205, 30207, 30208
Synonyms:	Not applicable
SDS Number:	Not applicable
Issue Date:	27 August 2015
Version Number:	NZ 2.0
Revision Date:	17 April 2019

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses:	Corrosion Inhibitor / Moisture Displacer
Uses advised against:	Other uses are not recommended unless an assessment is completed, prior to commencement of that use, which demonstrates that the use will be controlled.

1.3 Details of the supplier of the safety data sheet

Manufacturer:	Corrosion Technologies 2638 National Drive, Garland, TX 75041
Telephone:	972-271-7361
Fax:	972-278-9721
Email:	info@corrosionx.com
Website:	www.corrosionx.com
Distributor in New Zealand:	Corrosion Control NZ 48 Riverside drive Whangarei 0112 Northland New Zealand Tel: +64 9-438-88-00 **Email: tom@corrosionx.org**

1.4 Emergency Telephone Number

Poisons Information Centre

NZ Poison emergency no: 0800 POISON (0800 764 766)

For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), 24-hour emergency telephone, call CHEMTREC® New Zealand (Auckland) +(64)-98010034.

2. HAZARDS IDENTIFICATION

Hazard Classification

Health Hazard(s)

Skin Irritation	Category 2
Eye Irritation	Category 2B
STOT-SE	Category 3

Physical Hazard(s)

Flammable Liquids	Category 4

Hazard(s) not otherwise classified

Aspiration Hazard	Category 1

Labeling

Signal Word: **DANGER**

Pictograms: Exclamation Mark, Heath Hazard

Statements of Hazard

Hazard Statements

Combustible liquid
Causes skin and eye irritation
May cause respiratory irritation, drowsiness or dizziness
May be fatal if swallowed and enters airways

Precautionary Statements

Store in a well-ventilated place. Keep cool. Keep away from flames and hot surfaces – No smoking. In case of fire: Use carbon dioxide, dry chemical, or foam to extinguish. Use only outdoors or in a well-ventilated area. 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. 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/attention.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.
If swallowed: Immediately call a doctor or poison center. Do NOT induce vomiting.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Percent by Wt.
Heavy hydrotreated naphthenic petroleum distillates	64742-52-5	25-30*
Naphthalenesulfonic acid, dinonyl-, calcium salt (2:1)	57855-77-3	15-20*
Naphtha (petroleum), hydrotreated heavy	64742-48-9	25-30*
Calcium carbonate	471-34-1	1-5*
Hexylene glycol	107-41-5	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. Aspiration hazard; do not swallow. May cause lung damage. Use with adequate ventilation. Avoid breathing mist or vapor. Prolonged or repeated inhalation may cause dizziness and drowsiness. Keep container closed.
Inhalation: Remove from exposure area. Remove to fresh air. Give artificial respiration if not breathing. Get medical attention.
Skin Contact: Wipe excess from skin; remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation persists.
Eye Contact: Flush eyes with plenty of water for 15 minutes while holding eyelids open. Seek medical attention if irritation persists.
Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a physician or poison control center.

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.
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. 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. Keep container tightly closed when not in use. Avoid excess heating, high temperatures, sparks, hot surfaces, open flames, and all other sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

	ACGIH		OSHA			
Component	**TLV ppm**	**TLV mg/m3**	**PEL ppm**	**PEL mg/m3**	**STEL ppm**	**STEL mg/m3**
Heavy hydrotreated naphthenic petroleum distillates	-	5	-	5	-	10
Naphthalenesulfonic acid, dinonyl-, calcium salt (2:1)	-	-	-	-	-	-
Naphtha (petroleum), hydrotreated heavy	171	1200	-	-	-	-
Calcium carbonate	-	-		10 total/ 5 resp.	-	-
Hexylene glycol	-	5	10	-	25	125

Engineering Controls: Use outdoors or 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	**Color:**	Amber/Lt brown
Physical State:	Non-viscous liquid	**Viscosity, cSt @ 40°C:**	Not established
Odor:	Hydrocarbon	**cSt @ 104°C:**	64.7

pH:	Not applicable	**Evaporation Rate (BuAc=1) :**	<0.01
Boiling Point/ Range:	>450°F / 232°C	**Vapor Pressure, mmHg @23°C:**	>1 mmHg
Melting Point:	Not established	**Solubility in water:**	Insoluble
Flash Point:	65°C / 149°F	**Octanol/Water Partition:**	Not established
Method:	Cleveland Open Cup	**VOC Content g/l (%):**	290 (29)
Lower Explosive Limit, vol %:	0.7	**Specific Gravity @ 22.2°C:**	0.896
Upper Explosive Limit, vol %:	5.3	**Pour Point:**	Not established
Autoignition Temperature:	Not established	**Non-volatile by Volume (%):**	59
Percent Volatile by volume:	41	**Dielectric Strength (KV):**	28
Vapor Density (Air=1) :	>1		

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: Not established
Ingredient Information: 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. Ingestion and subsequent vomiting may result in aspiration of the product into the lungs resulting in chemical pneumonitis, pneumonia, and pulmonary edema.

Primary Route(s) of Exposure: Eyes, Inhalation
Primary Route(s) of Entry: Inhalation, Ingestion
Target Organs: Skin, Eyes, Central Nervous System, Lungs
Chronic Effects: None known
Carcinogenicity: Not established
Medical Conditions Aggravated by Exposure: May aggravate existing skin, eye and respiratory conditions such as asthma and dermatitis.

12. ECOLOGICAL INFORMATION

Product Data: Not established
Ingredient Data: Not established
Elimination Information: Not established

13. DISPOSAL CONSIDERATIONS

Product: Dispose of in accordance with local regulations. Smaller quantities can be disposed of with household waste.
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 or grind empty containers.

14. TRANSPORT INFORMATION

Road Transport
DOT Hazard Class: 3
UN-No.: UN1268
Proper Shipping Name: Petroleum distillates, n. o. s. (>119 gallon - < 119 Not Regulated)

Sea Transport
IMDG/GGV See Class: Not regulated

Air Transport
ICAO/IATA Class: Not regulated

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
X	-	X	-	-

New Zealand
Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation.
HSNO classification: 6.3A, 6.4A, 6.9B, 6.1E, 3.1D
HSNO approval: Corrosion Inhibitors (Combustible) Group Standard 2017 - HSR002546
Not classified as a Dangerous Good according to NZS5433:2007 Transport of Dangerous Goods on Land.
NZIoC (New Zealand Inventory of Chemicals): All components are listed on the NZIoC inventory or are exempt.

16. OTHER INFORMATION

Prepared by: Corrosion Technologies Technical Services Department
Issue Date: 17 April 2019 **Supersedes Date:** 8 October 2015
Revision Indicator: v2.0 Addition of HSNO classification

National Fire Protection Association (704)
Health: 1 Flammability: 2 Reactivity: 0 Other:

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damage incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical and application of such products is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the sole responsibility of the user to comply with all applicable Federal, State and Local Laws and Regulations. Any questions with regards to information contained herein should be referred to: U.S. Corrosion Technologies, LLC (972) 271-7361.