# **Safety Data Sheet**

Issue Date: 17-Jan-2018 Revision Date: 22-Jan-2018 Version 1

1. IDENTIFICATION

**Product Identifier** 

Product Name Navigator SC Termiticide/Insecticide

Other means of identification

**SDS #** GCI-011

Registration Number(s) EPA Reg. No. 93182-23

UN/ID No UN2588

Recommended use of the chemical and restrictions on use

Recommended Use Liquid (soluble) concentrate. It is diluted with water prior to use. Refer to product label for

further details.

Details of the supplier of the safety data sheet

**Manufacturer Address** 

GHARDA CHEMICALS INTERNATIONAL INC.

760 Newtown-Yardley Road

Suite 110

Newtown, PA USA 18940 Website: www.ghardausa.com

For further information contact: 1 (215) 968-9474

**Emergency Telephone Number** 

Emergency Telephone (24 hr) MEDICAL EMERGENCY (24 hr): PROPHARMA (866)-359-5660

TRANSPORTATION OR SPILL (24 hr): CHEMTREC (800) 424-9300

## 2. HAZARDS IDENTIFICATION

<u>Emergency Overview</u> This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

Appearance Cream to faint brown Physical state Liquid Odor Odorless

suspension

Classification

Acute toxicity - Oral	Category 4
Specific target organ toxicity (repeated exposure)	Category 1

#### Signal Word

Danger

# **Hazard statements**

Harmful if swallowed

Causes damage to organs through prolonged or repeated exposure



#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray

## **Precautionary Statements - Response**

Get medical advice/attention if you feel unwell IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell Rinse mouth

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other hazards

Very toxic to aquatic life with long lasting effects

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Fipronil	120068-37-3	9.1

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

# 4. FIRST AID MEASURES

#### **First Aid Measures**

**General Advice** Provide this SDS to medical personnel for treatment.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call

a poison control center or doctor for treatment advice.

**Skin Contact** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20

mintues. Call a poison control center or doctor for treatment advice.

**Inhalation** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give

artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or

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doctor for further treatment advice.

**Ingestion** Call a poison control center or doctor immediately for treatment advice. Have person sip a

glass of water if able to swallow. Do not induce vomiting without medical advice. Never give

anything by mouth to an unconscious person.

## Most important symptoms and effects

**Symptoms** Harmful if swallowed. Causes damage to organs through prolonged or repeated exposure.

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# Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

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

**Small Fire** Dry chemical. Carbon dioxide (CO2). Water spray.

Large Fire Water spray or fog. Regular foam.

Unsuitable Extinguishing Media Not determined.

# **Specific Hazards Arising from the Chemical**

Move containers from fire area if you can do so without risk.

For fires involving tanks: Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire.

## Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. LARGE SPILL: Consider initial downwind evacuation for at least 300 meters (1000 feet).

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Use personal protective equipment as required. Do not touch or walk through spilled

material. Keep unnecessary personnel away. Stay upwind. Refer to protective measures

listed in sections 7 and 8.

**Environmental precautions** 

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for

additional Ecological Information.

### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up CALL EMERGENCY RESPONSE Telephone Number on shipping paper first. If shipping

paper not available or no answer, refer to appropriate telephone number listed on the inside back cover. As an immediate precautionary measures, isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids. Cover with plastic sheet to prevent spreading. Absorb or cover with dry earth, sand

or other non-combustible material and transfer to containers.

# 7. HANDLING AND STORAGE

# Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin and eyes. Ensure adequate ventilation, especially in confined areas.

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## Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep away

from foodstuffs, beverages, and feed. Keep away from heat. Protect from direct sunlight.

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Store between 0°C and 30 °C.

**Incompatible Materials** Strong acids. Strong bases. Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies

#### Appropriate engineering controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

## Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Tightly sealed goggles.

**Skin and Body Protection**Wear protective gloves. The glove material has to be impermeable and resistant to the

product/ the substance/ the preparation. Suitable protective clothing. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under

chemical protection suit and should be professionally laundered frequently.

**Respiratory Protection** Respiratory single serving mask DIN EN 149 with filter FFP2.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Liquid

AppearanceCream to faint brown suspensionOdorOdorlessColorCream to faint brownOdor ThresholdNot determined

Property Values Remarks • Method

Not flammable

pH Slightly acidic

Melting Point/Freezing Point Not determined

Boiling Point/Boiling Range 100 °C / 212 °F

Flash Point > 80 °C / 176 °F

Evaporation Rate Not determined

Flammability (Solid, Gas)
Flammability Limits in Air

Upper Flammability Limits
Lower Flammability Limit
Vapor Pressure
Vapor Density

Not determined
Not determined
Not determined
Not determined

Relative Density

1.00 to 1.050 g/cm3 at 22°C

Water Solubility

1.9 mg/L in distilled water

Solubility in other solvents Acetone 545, dichloromethane 22,

Hexane 0.028, toluene 3 (all in g/l, 25

°C).

Partition Coefficient
Auto-ignition Temperature
Decomposition Temperature
Not determined
Not determined

Kinematic Viscosity Approx. 3000-6000 cp at 1.5 rpm

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Brookfield spindle no.2, at 30 °C

Dynamic Viscosity

Explosive Properties

Oxidizing Properties

Not determined

Not determined

**Other Information** 

Molecular weight 437.2

# 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

### **Chemical Stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

## **Conditions to Avoid**

Keep out of reach of children.

## **Incompatible Materials**

Strong acids. Strong bases. Strong oxidizing agents.

## **Hazardous Decomposition Products**

May emit toxic fumes under fire conditions.

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

**Product Information** 

**Eye Contact** Avoid contact with eyes.

**Skin Contact** May be harmful in contact with skin.

**Inhalation** Do not inhale.

**Ingestion** Harmful if swallowed.

#### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	
Inert Ingedients	> 90 mL/kg (Rat)	-	-	
Fipronil 120068-37-3	= 97 mg/kg (Rat)	> 2000 mg/kg (Rat)	-	

#### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity Based on the information provided, this product does not contain any carcinogens or

potential carcinogens as listed by OSHA, IARC or NTP.

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**STOT - repeated exposure**Causes damage to organs through prolonged or repeated exposure.

#### **Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document ...

 ATEmix (oral)
 1,066.00 mg/kg

 ATEmix (dermal)
 3,297.00 mg/kg

 ATEmix (inhalation-dust/mist)
 5.51 mg/L

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

#### **Component Information**

Daphnia LC 50/48h: >380 g/L Bluegill sunfish LC50/96 h: 170 g/L Rainbow trout LC50/ 96h: 500 g/L Birds LD50: Pigeon >2000 mg/kg

Algae EC 50 Scenedesmus subscricatus (96 hours): 0.14 mg/l

Bee LD50: Highly toxic to honey bees Earthworm LD50 (14 day): Non toxic

#### Persistence/Degradability

Not easily biodegradable.

#### **Bioaccumulation**

Not determined.

#### Mobility

Not determined

#### **Other Adverse Effects**

PBT Assessment: If released to air, a vapor pressure of 2.78X10-9 mm Hg at 25 deg C indicates fipronil will exist solely in the particulate phase in the atmosphere. Particulate-phase fipronil will be removed from the atmosphere by wet or dry deposition. Fipronil contains chromophores that absorb at wavelengths >290 nm and, therefore, may be susceptible to direct photolysis by sunlight. If released to soil, fipronil is expected to have low to no mobility based upon Koc values of 825 to 6863. Photolytic half-lives in soil for fipronil were reported as 147 to 217 hours. Fipronil is expected to biodegrade in soil and water based upon studies showing estimated degradation half-lives of 25.1 to 91.2 days in three sediments under aerobic conditions and 4.6 to 18.5 days for the same sediments under anaerobic conditions. If released into water, fipronil is expected to adsorb to suspended solids and sediment based upon the Koc values. A whole body BCF of 321 in bluegill suggests bioconcentration in aquatic organisms is high. Fipronil is stable to hydrolysis at pH 5.5 and pH 7, but has a hydrolysis half-life of 28 days at pH 9. An aqueous photolytic half-life for fipronil was reported as 4.1 hours

# 13. DISPOSAL CONSIDERATIONS

# **Waste Treatment Methods**

**Disposal of Wastes**Must not be disposed together with household garbage. Do not allow product to reach

sewage system. Disposal should be in accordance with applicable regional, national and

local laws and regulations.

**Contaminated Packaging** Do not reuse empty containers.

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#### California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Fipronil	Toxic
120068-37-3	

## 14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT

UN/ID No UN2588

Proper Shipping Name Pesticide, solid, toxic, n.o.s. (Fipronil)

Hazard Class 6.1
Packing Group III
Marine Pollutant Yes.

<u>IATA</u>

UN/ID No UN2588

Proper Shipping Name Pesticide, solid, toxic, n.o.s. (Fipronil)

Hazard Class 6.1
Packing Group III
Marine Pollutant Yes

**IMDG** 

UN/ID No UN2588

Proper Shipping Name Pesticide, solid, toxic, n.o.s. (Fipronil)

Hazard Class6.1Packing GroupIIIMarine PollutantYes

# 15. REGULATORY INFORMATION

## International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Inert Ingedients	Х	Х	Х		Х	Present	Х	Х
Fipronil	Х		Х	Present		Present		

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## US Federal Regulations

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

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## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

# **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

## **US State Regulations**

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## **U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated under applicable state right-to-know regulations

## EPA Pesticide Registration Number EPA Reg. No. 93182-23

#### **EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

## **EPA Pesticide Label**

SIGNAL WORD: CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear goggles, face shield, or safety glasses. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Difference between SDS and EPA pesticide label

Difference between obo and Er A pesticide laber					
	EPA	OSHA			
Signal Word	Caution	Danger			
Acute toxicity - Oral	Harmful if swallowed	Harmful if swallowed			
Serious eye damage/eye irritation	Causes moderate eye irritation	NA			
Specific target organ toxicity (repeated exposure)	NA	Causes damage to organs through prolonged or repeated exposure			

**16. OTHER INFORMATION** 

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NFPA Health Hazards Flammability Instability Special Hazards

1 0 0 Not determined

HMIS Health Hazards Flammability Physical hazards Personal Protection

Not determined Not determined Not determined Not determined

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## **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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