

# Safety Data Sheet

Issue Date: 07-Mar-2018

Revision Date: 09-Mar-2018

Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Reality® Termiticide/Insecticide

### Other means of identification

**SDS #** GCI-029

**Registration Number(s)** EPA Reg. No. 93182-13

### Recommended use of the chemical and restrictions on use

**Recommended Use** Liquid herbicide for Insecticidal control of Agricultural plant pests. 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

**Emergency Overview** 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** Amber liquid

**Physical state** Liquid

**Odor** Faint Mild petroleum

### Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 1
Aspiration toxicity	Category 1
Flammable Liquids	Category 4

### Signal Word

**Danger**

**Hazard statements**

Harmful if swallowed

Harmful if inhaled

May cause an allergic skin reaction

May cause genetic defects

Causes damage to organs through prolonged or repeated exposure

May be fatal if swallowed and enters airways

Combustible liquid

**Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Contaminated work clothing must not be allowed out of the workplace

Do not breathe dust/fume/gas/mist/vapors/spray

Keep away from flames and hot surfaces. - No smoking

**Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention

IF ON SKIN: Wash with plenty of water and soap

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing

IF SWALLOWED: Immediately call a POISON CENTER or doctor

Do NOT induce vomiting

Rinse mouth

IN CASE OF FIRE: Use CO2, dry chemical, or foam to extinguish

**Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other hazards**

Very toxic to aquatic life with long lasting effects

<b>3. COMPOSITION/INFORMATION ON INGREDIENTS</b>
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Chemical Name	CAS No.	Weight-%
Stoddard solvent	8052-41-3	51.7
Permethrin	52645-53-1	38.3

\*\*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

<b>General Advice</b>	Provide this SDS to medical personnel for treatment.
<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a poison control center or doctor for treatment advice.
<b>Skin Contact</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
<b>Inhalation</b>	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 doctor for further treatment advice.
<b>Ingestion</b>	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 unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

### Most important symptoms and effects

<b>Symptoms</b>	Harmful if swallowed. Harmful if inhaled. May cause an allergic skin reaction. Causes damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.
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### Indication of any immediate medical attention and special treatment needed

<b>Notes to Physician</b>	This product contains aromatic hydrocarbons, which can produce a severe pneumonitis if aspirated. Consideration should be given to gastric lavage with an endotracheal tube in place. Treatment is controlled removal of exposure followed by symptomatic and supportive care.
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## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water fog.

**Unsuitable Extinguishing Media** High volume water jet.

### Specific Hazards Arising from the Chemical

Combustible material. When heated above the flash point, this material releases vapors which, when mixed with air, can burn or be explosive.

**Hazardous Combustion Products** Chlorine. Hydrogen chloride. Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Aldehydes.

### 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.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Personal Precautions</b>	Use personal protective equipment as required.
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**Environmental precautions**

**Environmental precautions** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, 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** FOR EMERGENCY: Call CHEMTREC 1-800-424-9300. Isolate and post spill area. Wear protective clothing and personal protective equipment as prescribed in Section 8 "Personal Protection". Keep unprotected persons and animals out of the area. Keep material out of streams and sewers. Dike to confine spill and absorb with an absorbent such as clay, sand or soil. Vacuum, shovel or pump waste into a drum and label content.

To clean and neutralize spill area, tools and equipment, wash with a suitable solution of caustic or soda ash and an appropriate alcohol (methanol, ethanol or isopropanol). Follow this by washing with a strong soap and water solution. Absorb as above, any excess liquid and add to the drums of waste already collected. Repeat if necessary. Dispose of drummed waste according to the method outlined in "Disposal Considerations".

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing and eye/face protection. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed and store in a cool, dry and well-ventilated place. Store away from heat, sparks, flame. Store at temperatures above 40°F (5°C). If crystals form, warm to room temperature 70°F (21°C) by room heating only for 24-48 hours, and shake occasionally until crystals dissolve and product appears uniform. Keep out of reach of children. Do not contaminate water, food or feed by storage.

**Incompatible Materials** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Stoddard solvent 8052-41-3	TWA: 100 ppm	TWA: 500 ppm TWA: 2900 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m <sup>3</sup>	IDLH: 20000 mg/m <sup>3</sup> Ceiling: 1800 mg/m <sup>3</sup> 15 min TWA: 350 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering Controls** Showers. Eyewash stations. Ventilation systems.

**Individual protection measures, such as personal protective equipment**

<b>Eye/Face Protection</b>	Wear tight fitting goggles or face shield.
<b>Skin and Body Protection</b>	Wear protective gloves. Depending upon concentrations encountered, wear coveralls or long-sleeved uniform and head covering. For larger exposures as in the case of spills, wear full body cover barrier suit, such as a PVC suit. Leather items - such as shoes, belts and watchbands - that become contaminated should be removed and destroyed. Launder all work clothing before reuse (separately from household laundry).
<b>Respiratory Protection</b>	For splash, spray or mist exposure, wear as a minimum, a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides (U.S.NIOSH/MSHA, EU CEN) or comparable certification organization). Respirator use and selection must be based on airborne concentrations.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid	<b>Odor</b>	Faint Mild petroleum
<b>Appearance</b>	Amber liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Amber		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	6.05 (5% solution in water)	
<b>Melting point / freezing point</b>	Not determined	
<b>Boiling Point / Boiling Range</b>	Not determined	
<b>Flash Point</b>	86 °C / 214 °F	
<b>Evaporation Rate</b>	Not determined	
<b>Flammability (Solid, Gas)</b>	Liquid- Not applicable	
<b>Flammability Limit in Air</b>		
<b>Upper Flammability Limit</b>	Not determined	
<b>Lower Flammability Limit</b>	Not determined	
<b>Vapor Pressure</b>	Not determined	
<b>Vapor Density</b>	Not determined	
<b>Relative Density</b>	1.03 g/ml at 27°C (81°F)	
<b>Water Solubility</b>	Emulsifies	
<b>Solubility in other solvents</b>	Not determined	
<b>Partition Coefficient</b>	Not determined	
<b>Autoignition temperature</b>	Not determined	
<b>Decomposition Temperature</b>	Not determined	
<b>Kinematic Viscosity</b>	Not determined	
<b>Dynamic Viscosity</b>	Not determined	
<b>Explosive Properties</b>	Not determined	
<b>Oxidizing Properties</b>	Not determined	

**Other Information**

<b>Bulk Density</b>	8.58 lbs/gal
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**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.

**Hazardous Polymerization** Hazardous polymerization does not occur.**Conditions to Avoid**

Keep out of reach of children.

**Incompatible Materials**

None known based on information supplied.

**Hazardous Decomposition Products**

None known based on information supplied.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information****Eye Contact** Avoid contact with eyes.**Skin Contact** Avoid contact with skin.**Inhalation** Harmful if inhaled.**Ingestion** Do not ingest.**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Permethrin 52645-53-1	= 383 mg/kg ( Rat ) = 220 mg/kg ( Rat )	(> 2 g/kg ( Rabbit ) > 5000 mg/kg ( Rat ) = 1750 mg/kg ( Rat )	> 0.69 mg/L ( Rat ) 4 h

**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****Sensitization** May cause an allergic skin reaction.**Germ cell mutagenicity** May cause genetic defects.**Carcinogenicity** Group 3 IARC components are "not classifiable as human carcinogens".

Chemical Name	ACGIH	IARC	NTP	OSHA
Permethrin 52645-53-1		Group 3		X

**Legend****IARC (International Agency for Research on Cancer)**

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure.**Aspiration hazard** May be fatal if swallowed and enters airways.

**Numerical measures of toxicity**

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

ATEmix (oral) 631.00 mg/kg

ATEmix (inhalation-dust/mist) 1.89 mg/L

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

**Component Information**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Permethrin 52645-53-1		0.00188 - 0.00336: 96 h Lepomis macrochirus mg/L LC50 static 0.00079: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.0017 - 0.0048: 96 h Oncorhynchus mykiss mg/L LC50 static 0.015: 96 h Cyprinus carpio mg/L LC50 flow-through 0.008 - 0.03: 96 h Pimephales promelas mg/L LC50 flow-through 0.00049 - 0.00097: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.001 - 0.009: 96 h Pimephales promelas mg/L LC50 static 0.0052 - 0.0077: 96 h Cyprinus carpio mg/L LC50 0.0108: 96 h Lepomis macrochirus mg/L LC50	

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

Not determined.

**Mobility**

Chemical Name	Partition Coefficient
Permethrin 52645-53-1	6.5

**Other Adverse Effects**

Not determined

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods****Disposal of Wastes**

Pesticide spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**California Hazardous Waste Status**

Chemical Name	California Hazardous Waste Status
Permethrin 52645-53-1	Toxic

**14. TRANSPORT INFORMATION**

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT** Not regulated (If shipped in NON BULK packaging by ground transport)  
**Marine Pollutant** Yes.

**IATA**

<b>UN/ID No</b>	UN1993
<b>Proper Shipping Name</b>	Flammable Liquids, n.o.s. (contains hydrocarbon solvent)
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>Marine Pollutant</b>	Yes

**IMDG**

<b>UN/ID No</b>	UN1993
<b>Proper Shipping Name</b>	Flammable Liquids, n.o.s. (contains hydrocarbon solvent)
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>Marine Pollutant</b>	Yes

**15. REGULATORY INFORMATION****International Inventories**

Chemical Name	TSCA	DSL/NDL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Stoddard solvent	X	X	X		X	X	X	X
Permethrin	X		X	X	X	X	X	X

**Legend:**

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

**DSL/NDL** - 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).



**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Permethrin - 52645-53-1	52645-53-1	38.3	1.0

**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**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Stoddard solvent 8052-41-3	X	X	X
Permethrin 52645-53-1	X	X	
Water 7732-18-5			X

**EPA Pesticide Registration Number** EPA Reg. No. 93182-13

**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**

EPA Signal Word: WARNING May be fatal if swallowed. Causes moderate eye irritation. Avoid Contact with skin, eyes, or clothing

**Difference between SDS and EPA pesticide label**

	EPA	OSHA
<b>Signal Word</b>	Warning	Danger
Acute toxicity - Oral	NA	Harmful if swallowed
Acute toxicity - Inhalation	NA	Harmful if inhaled
Serious eye damage/eye irritation	Causes moderate eye irritation	NA
Skin sensitization	NA	May cause an allergic skin reaction
Germ cell mutagenicity	NA	May cause genetic defects
Specific target organ toxicity (repeated exposure)	NA	Causes damage to organs through prolonged or repeated exposure
Aspiration toxicity	May be fatal if swallowed	May be fatal if swallowed and enters airways

**16. OTHER INFORMATION****NFPA****Health Hazards**

Not determined

**Flammability**

Not determined

**Instability**

Not determined

**Special Hazards**

Not determined

**HMIS****Health Hazards**

Not determined

**Flammability**

Not determined

**Physical hazards**

Not determined

**Personal Protection**

Not determined

**Issue Date:** 07-Mar-2018**Revision Date:** 09-Mar-2018**Revision Note:** New format**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**