

# Safety Data Sheet Spartan Chemical Company, Inc.

Revision Date: 27-Jan-2015

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Name: ORANGE TOUGH 40

Product Number: 2240

Recommended Use: Cleaning agent

Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc.

1110 Spartan Drive Maumee, Ohio 43537 USA 800-537-8990 (Business hours) www.spartanchemical.com

24 Hour Emergency Phone Numbers:

Medical Emergency/Information: 888-314-6171

Transportation/Spill/Leak: CHEMTREC 800-424-9300

## 2. HAZARDS IDENTIFICATION

#### **GHS Classification**

Acute toxicity - Inhalation (Dusts/Mists) Category 4
Skin Corrosion/Irritation: Category 2
Serious Eye Damage/Eye Irritation: Category 1
Skin Sensitization: Category 1
Flammable Liquids Category 3

**GHS Label Elements** 

Signal Word: Danger

Symbols:



Hazard Statements: Harmful if inhaled.

Causes skin irritation.
Causes serious eye damage
May cause an allergic skin reaction
Flammable liquid and vapor.

**Precautionary Statements:** 

Prevention: Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area.

Wash hands and any exposed skin thoroughly after handling.

Wear eye / face protection Wear protective gloves

Contaminated work clothing should not be allowed out of the workplace Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Keep container tightly closed

Ground container and receiving equipment. Use explosion-proof electrical equipment.

Use only non-sparking tools

Take precautionary measures against static discharge

Response:

-Skin Contact:

**-Eyes** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. IMMEDIATELY CALL A POISON CENTER OR

PHYSICIAN.

**-Skin** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

or shower. If skin irritation or rash occurs: Get medical attention. Wash contaminated

clothing before reuse.

-Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. Call a POISON CENTER or doctor/physician if you feel unwell

-Specific Treatment: See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

Fire: In case of fire: Use Water spray, fog or regular foam for extinction

Storage: Store in a well-ventilated place. Keep cool

**Disposal:** Dispose of contents and container in accordance with local, state and federal regulations.

Do not dispose of this product by pouring on the ground, into storm sewers, waterways or other surface waters. Consult with local, federal and state authorities prior to disposal of

any d-limonene containing product into the sanitary sewer system.

Hazards Not Otherwise Classified: Not Applicable

Other Information: • Harmful if swallowed

· Keep out of reach of children.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                             | CAS No      | Weight-% |
|-------------------------------------------|-------------|----------|
| d-limonene                                | 5989-27-5   | 15-40    |
| water                                     | 7732-18-5   | 10-30    |
| nonylphenol ethoxylate                    | 127087-87-0 | 10-30    |
| triethanolamine dodecylbenzene sulfonate  | 27323-41-7  | 5-10     |
| triethanolamine                           | 102-71-6    | 3-7      |
| hexylene glycol                           | 107-41-5    | 1-5      |
| dicarboxylic fatty acid, dipotassium salt | 66375-37-9  | 1-5      |
| tetrasodium ethylenediaminetetraacetate   | 64-02-8     | 1-5      |

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

**-Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a

**-Inhalation:** Remove victim to fresh air and keep at rest in a posi poison control center or physician if you feel unwell.

**-Ingestion:** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious

person. Get medical attention if you feel unwell.

**Note to Physicians:** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Specific Hazards Arising from the Water spray, fog or regular foam, Dry chemical

Chemical:

Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and

flash back.

**Hazardous Combustion Products:** 

May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.

Protective Equipment and Precautions for Firefighters:

Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full

protective gear. Cool fire-exposed containers with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Use personal protective equipment as required.

**Environmental Precautions:** Do not rinse spill onto the ground, into storm sewers or bodies of water. Do not dispose of

this product by pouring on the ground, into storm sewers, waterways or other surface waters. Consult with local, federal and state authorities prior to disposal of any d-limonene

containing product into the sanitary sewer system.

Methods for Clean-Up: Prevent further leakage or spillage if safe to do so. Contain and collect spillage with

non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

## 7. HANDLING AND STORAGE

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly

after handling.

Storage Conditions: Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric

motors and static electricity).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

| Ob and a d Mana | A COULTLY       | COLLA DEL                                | MOOLI                          |
|-----------------|-----------------|------------------------------------------|--------------------------------|
| Chemical Name   | ACGIH TLV       | OSHA PEL                                 | NIOSH                          |
| hexylene glycol | Ceiling: 25 ppm | (vacated) Ceiling: 25 ppm                | Ceiling: 25 ppm                |
| 107-41-5        |                 | (vacated) Ceiling: 125 mg/m <sup>3</sup> | Ceiling: 125 mg/m <sup>3</sup> |

**Engineering Controls:** Provide good general ventilation.

If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other

engineering controls should be considered.

Personal Protective Equipment

Eye/Face Protection: Skin and Body Protection: Wear splash goggles.

Wear rubber or other chemical-resistant gloves.

**Respiratory Protection:** Not required with expected use.

If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section

3 should be considered.

General Hygiene Considerations: Wash hands and any exposed skin thoroughly after handling.

See 29 CFR 1910.132-138 for further guidance.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                 | h                         |
|---------------------------------|---------------------------|
| Appearance/Physical State:      | Liquid                    |
| Color:                          | Orange                    |
| Odor:                           | Orange                    |
| pH:                             | 8.5-9.5                   |
| Melting Point / Freezing Point: | No information available. |
| Boiling Point / Boiling Range:  | > 100 °C / 212 °F         |
| Flash Point:                    | 51 °C / 124 °F ASTM D56   |
| Evaporation Rate:               | < 1                       |
| Flammability (solid, gas)       | No information available. |
| Upper Flammability Limit:       | No information available. |
| Lower Flammability Limit:       | No information available. |
| Vapor Pressure:                 | No information available. |
| Vapor Density:                  | No information available. |
| Specific Gravity:               | 0.96                      |
| Solubility(ies):                | Miscible in water         |
| Partition Coefficient:          | No information available. |
| Autoignition Temperature:       | No information available. |
| Decomposition Temperature:      | No information available. |
| Viscosity:                      | No information available. |

## 10. STABILITY AND REACTIVITY

Reactivity: This material is considered to be non-reactive under normal conditions of use.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Not expected to occur with normal handling and storage.

Conditions to Avoid: Extremes of temperature and direct sunlight. Incompatible Materials: Strong oxidizing agents. Strong acids.

Incompatible Materials: Strong oxidizing agents. Strong acids.

Hazardous Decomposition May include carbon monoxide, carbon dio

Products:

May include carbon monoxide, carbon dioxide (CO2) and other toxic gases or vapors.

## 11. TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure:** Eyes, Skin, Ingestion, Inhalation.

Symptoms of Exposure:

**-Eye Contact:** Pain, redness, swelling of the conjunctiva and tissue damage. Eye contact may cause

permanent damage.

-Skin Contact:
-Inhalation:
-Ingestion:
Pain, redness and cracking of the skin.
Nasal discomfort and coughing.
Pain, nausea, vomiting and diarrhea.

Immediate, Delayed, Chronic Effects

Product Information: Data not available or insufficient for classification.

Target Organ Effects: Central nervous system. -Eyes. Respiratory System. -Skin.

**Numerical Measures of Toxicity** 

The following acute toxicity estimates (ATE) are calculated based on the GHS document.

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ATEmix (oral): 2301 mg/kg
ATEmix (dermal): 4814 mg/kg
ATEmix (inhalation-dust/mist): 2.6 mg/l

**Component Acute Toxicity Information** 

| Chemical Name           | Oral LD50            | Dermal LD50             | Inhalation LC50 |
|-------------------------|----------------------|-------------------------|-----------------|
| d-limonene<br>5989-27-5 | = 4400 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | Not Available   |
| water<br>7732-18-5      | 3 ( )                |                         | Not Available   |

| triethanolamine dodecylbenzene<br>sulfonate<br>27323-41-7 | = 2320 mg/kg ( Rat ) | > 23220 mg/kg(Rabbit) | Not Available         |
|-----------------------------------------------------------|----------------------|-----------------------|-----------------------|
| hexylene glycol<br>107-41-5                               | = 3692 mg/kg (Rat)   | = 8560 μL/kg(Rabbit)  | > 310 mg/m³ (Rat) 1 h |
| tetrasodium<br>ethylenediaminetetraacetate<br>64-02-8     | = 10 g/kg(Rat)       | Not Available         | Not Available         |

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

| Chemical Name                                         | Algae/Aquatic Plants                            | Fish                                                                                                                                                                                                                   | Toxicity to Microorganisms | Crustacea                                    |
|-------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------------|
| d-limonene<br>5989-27-5                               | Not Available                                   | 0.619 - 0.796: 96 h<br>Pimephales promelas mg/L<br>LC50 flow-through 35: 96 h<br>Oncorhynchus mykiss mg/L<br>LC50                                                                                                      | Not Available              | Not Available                                |
| hexylene glycol<br>107-41-5                           | Not Available                                   | 10500 - 11000: 96 h Pimephales promelas mg/L LC50 flow-through 10000: 96 h Lepomis macrochirus mg/L LC50 static 8690: 96 h Pimephales promelas mg/L LC50 flow-through 10700: 96 h Pimephales promelas mg/L LC50 static | Not Available              | 2700 - 3700: 48 h Daphnia<br>magna mg/L EC50 |
| tetrasodium<br>ethylenediaminetetraacetate<br>64-02-8 | 1.01: 72 h Desmodesmus<br>subspicatus mg/L EC50 | 41: 96 h Lepomis<br>macrochirus mg/L LC50<br>static 59.8: 96 h Pimephales<br>promelas mg/L LC50 static                                                                                                                 | Not Available              | 610: 24 h Daphnia magna<br>mg/L EC50         |

Persistence and Degradability:<br/>Bioaccumulation:No information available.<br/>No information available.Other Adverse Effects:No information available.

# 13. DISPOSAL CONSIDERATIONS

Disposal of Wastes:

Contaminated Packaging:

US EPA Waste Number:

Dispose of in accordance with federal, state and local regulations.

Dispose of in accordance with federal, state and local regulations.

Dispose of in accordance with federal, state and local regulations.

5 EPA Waste Number: Door

## 14. TRANSPORT INFORMATION

DOT:

UN/ID No: UN1993

**Proper Shipping Name:** Flammable liquids, n.o.s., (contains d-limonene)

Hazard Class: 3
Packing Group: III

Special Provisions: Gallon containers of this product meet the exception requirements of section 49 CFR

173.306 as a limited quantity and may be shipped as a limited quantity.

## 15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)

All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

## SARA 313

This product does not contain listed substances above the "de minimus" level

## SARA 311/312 Hazard Categories

Acute Health Hazard:

Chronic Health Hazard:

No
Fire Hazard:

Sudden release of pressure hazard:

No
Reactive Hazard:

No

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals

| Chemical Name             | California Proposition 65 |
|---------------------------|---------------------------|
| diethanolamine - 111-42-2 | Carcinogen                |
| dioxane - 123-91-1        | Carcinogen                |
| formaldehyde - 50-00-0    | Carcinogen                |
| acetaldehyde - 75-07-0    | Carcinogen                |

WARNING: This product contains a chemical known to the State of California to cause cancer.

## **16. OTHER INFORMATION**

NFPA Health Hazards: 2 Flammability: 2 Instability: 0 Special: N/A

HMIS Health Hazards: 2 Flammability: 2 Physical Hazards: 0

Revision Date: 27-Jan-2015

Reasons for Revision: No information available.

#### Disclaimer:

The information provided in this Material 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**