MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number 891-002

Product name Citrus Formula 3000 Heavy Duty All-Purpose Degreaser

Effective date 12-Feb-2010

Total Cleanse Solutions Company information

Northvale, NJ 07647 United States

General Assistance 877-672-4727 Company phone

800-535-5053 **Emergency telephone US Emergency telephone outside US** 703-527-3887

04 Version #

08-May-2008 Supersedes date

2. Hazards Identification

Emergency overview CONTENTS UNDER PRESSURE. Aerosol.

Irritating to eyes. Prolonged exposure may cause chronic effects.

Potential health effects

Routes of exposure Skin contact. Ingestion. **Eyes** Causes eye irritation.

Prolonged or repeated contact can result in defatting and drying of the skin which may Skin

result in skin irritation and dermatitis (rash).

Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Exposure by ingestion of an aerosol is unlikely. Components of the product may be Ingestion

absorbed into the body by ingestion.

Target organs Central nervous system.

May cause central nervous system disorder (e.g., narcosis involving a loss of **Chronic effects**

coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage.

Prolonged skin contact may defat the skin and produce dermatitis.

Narcosis. Defatting of the skin. Irritation. Signs and symptoms

3. Composition / Information on Ingredients

Components	CAS#	Percent
Synthetic Isoparaffinic Hydrocarbon	64742-47-8	5 - 8
n-Butane	106-97-8	3 - 5
d-Limonene	5989-27-5	3 - 5
Propane	74-98-6	1 - 3
Non-hazardous and other components below reportable levels		80 - 90

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation

develops or persists.

Immediately take off all contaminated clothing. Wash off with warm water and soap. Get Skin contact

medical attention if irritation develops or persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, get medical attention.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center

immediately.

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5. Fire Fighting Measures

Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may Flammable properties

cause fire or explosion hazard.

Extinguishing media

Suitable extinguishing media

Protection of firefighters

Specific hazards arising from

the chemical

Methods for cleaning up

Protective equipment and precautions for firefighters Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Fire may produce irritating, corrosive and/or toxic gases.

In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing. including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Containers should be cooled with water to prevent vapor pressure build up. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

6. Accidental Release Measures

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). **Methods for containment**

Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Stop the flow of material, if this is without risk. Prevent entry into

waterways, sewers, basements or confined areas.

Should not be released into the environment. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

7. Handling and Storage

Pressurized container: Do not pierce or burn, even after use. Do not handle or store near Handling

an open flame, heat or other sources of ignition. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. Do not get this material in contact with eyes. Do not get this material in contact with skin. Wear

personal protective equipment. Avoid prolonged exposure.

Level 1 Aerosol. Storage

Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Do not handle or store near an open flame, heat or other sources of ignition. Avoid exposure to long periods of sunlight. Store in cool place. Keep the container dry. Keep out of the reach of children. Do not store, incinerate, or heat this material above 120 degrees Fahrenheit.

8. Exposure Controls / Personal Protection

Exposure limits

ACGII	
ACGII	п.

Components	CAS#	TWA	STEL	Ceiling
n-Butane	106-97-8	1000 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
OSHA				
Components	CAS#	TWA	STEL	Ceiling
Propane	74-98-6	1000 ppm	Not established	Not established

Personal protective equipment

Eye / face protection Wear chemical goggles.

Skin protection Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant

clothing. Not normally needed.

Respiratory protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

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9. Physical & Chemical Properties

Compressed liquefied gas. **Appearance** 208.4 °F (97.8 °C) estimated **Boiling point**

Color white

Flammability (HOC) 7.8306 kJ/g estimated

Flash back No

Flash point -156 °F (-104.4 °C) Propellant

Form Aerosol. Odor fruity 9.5 - 10.5 Liquid. Physical state

48 - 58 psig @70F **Pressure**

Solubility Partially

0.9369 estimated Specific gravity

10. Chemical Stability & Reactivity Information

Risk of ignition. **Chemical stability**

Conditions to avoid Heat, flames and sparks.

Incompatible materials None known.

Hazardous decomposition products No hazardous decomposition products are known.

11. Toxicological Information

Acute LD50: 20676 mg/kg estimated, Rat, Dermal **Acute effects**

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

5989-27-5 Oral LD50 Rat 4400 mg/kg; Dermal LD50 Rabbit >2000 mg/kg d-Limonene

n-Butane 106-97-8 Inhalation LC50 Rat 658 mg/L 4 h 74-98-6 Inhalation LC50 Rat 658 mg/L 4 h Propane

Synthetic Isoparaffinic 64742-47-8 Inhalation LC50 Rat >5.2 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50

Hydrocarbon Rabbit >2000 mg/kg

Sensitization Not expected to be hazardous by OSHA criteria. **Teratogenicity** Not expected to be hazardous by OSHA criteria.

12. Ecological Information

Components of this product have been identified as having potential environmental **Ecotoxicity**

concerns.

LC50 522 mg/L estimated, Fish, 96.00 Hours, EC50 14090 mg/L estimated, Daphnia, 48.00 Hours, IC50 4513 mg/L estimated, Algae, 72.00 Hours,

13. Disposal Considerations

D001: Waste Flammable material with a flash point <140 F Waste codes

Disposal instructions Contents under pressure. Do not puncture, incinerate or crush. Dispose of this material

and its container at hazardous or special waste collection point. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

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14. Transport Information

Department of Transportation (DOT) Requirements

Basic shipping requirements:

Proper shipping name Consumer commodity

Hazard class ORM-D Subsidiary hazard class None

Additional information:

Packaging exceptions 156, 306 156, 306 Packaging non bulk None Packaging bulk

IMDG

Basic shipping requirements:

Proper shipping name **AEROSOLS**

Hazard class 2.1 1950 **UN** number

Additional information:

Packaging exceptions LTD QTY Labels required None

IATA

Basic shipping requirements:

Aerosols, flammable Proper shipping name

2.1 **Hazard class** 1950 **UN** number

Additional information:

Packaging exceptions LTD QTY

Labels required 2.1





15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

CERCLA (Superfund) reportable quantity

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories**

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

Section 302 extremely

hazardous substance

Section 311 hazardous chemical Yes

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Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

U.S. - Pennsylvania - RTK (Right to Know) List

n-Butane 106-97-8 Present Propane 74-98-6 Present Synthetic Isoparaffinic 64742-47-8 Present Hydrocarbon

16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings Health: 1 Flammability: 2 Physical hazard: 0

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. 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.

MSDS sections updated This document has undergone significant changes and should be reviewed in its entirety.

Prepared by Regulatory Compliance

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