

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

891-004 **Product number**

Product name Orange Power Heavy Duty Degreaser

Effective date 26-Feb-2011

Claire Manufacturing Co. Company information

1005 S. Westgate Drive

Addison, IL 60101 United States

General Assistance 630-543-7600 Company phone

Emergency telephone US 800-424-9300 **Emergency telephone outside US** 703-527-3887

Version # 06

04-Nov-2010 Supersedes date

2. Hazards Identification

Aerosol. CONTENTS UNDER PRESSURE. **Emergency overview**

Irritating to eyes.

Potential health effects

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

Skin Frequent or prolonged contact may defat and dry the skin, leading to discomfort and

Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Ingestion

Exposure by ingestion of an aerosol is unlikely. Components of the product may be absorbed into the body by ingestion.

Target organs Central nervous system.

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

coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and

dermatitis.

Signs and symptoms Narcosis. Defatting of the skin. Skin irritation.

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		

4. First Aid Measures

First aid procedures

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

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

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develops and persists.

Immediately take off all contaminated clothing. Wash off with warm water and soap. Skin contact Inhalation If symptoms develop move victim to fresh air. Get medical attention if symptoms persist.

Ingestion In the unlikely event of swallowing contact a physician or poison control center.

Notes to physician Symptoms may be delayed.

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5. Fire Fighting Measures

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

cause fire or explosion hazard.

Extinguishing media

Suitable extinguishing media

Protection of firefighters

Specific hazards arising from

the chemical

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 case of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up.

6. Accidental Release Measures

Methods for containment

Methods for cleaning up

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.

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 surface thoroughly to remove residual contamination.

7. Handling and Storage

Pressurized container: Do not pierce or burn, even after use. Do not smoke while using Handling

or until sprayed surface is thoroughly dry. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. Do not re-use empty containers. Wear personal protective equipment. Avoid prolonged exposure.

Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed Storage

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 out of the reach of children. Keep away from food, drink and animal

feedingstuffs. Level 1 Aerosol (NFPA 30B)

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

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

Skin protection Wear appropriate chemical resistant clothing. Chemical resistant gloves. Not normally

needed.

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

appropriate certified respirators. If permissible levels are exceeded use NIOSH

mechanical filter / organic vapor cartridge or an air-supplied respirator.

9. Physical & Chemical Properties

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

white Color

0.9369 g/cm3 estimated Density Flammability (HOC) 7.5153 kJ/g estimated

Flash back

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

Product name: Orange Power Heavy Duty Degreaser MSDS US **Form** Aerosol. Freezing point Not available

fruity Odor pН 9.5 - 10.5 **Physical state** Liquid.

Pressure 48 - 58 psig @70F

Solubility Partially

Specific gravity 0.937 estimated

10. Chemical Stability & Reactivity Information

Chemical stability Risk of ignition.

Conditions to avoid Heat, flames and sparks.

Incompatible materials None known.

Hazardous decomposition products No hazardous decomposition products are known.

11. Toxicological Information

Acute effects Acute LD50: 20679 mg/kg estimated, Rat, Dermal

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

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

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

12. Ecological Information

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

concerns.

LC50 521 mg/L, Fish, 96.00 Hours, EC50 14062 mg/L, Daphnia, 48.00 Hours, IC50 4512 mg/L, Algae, 72.00 Hours,

13. Disposal Considerations

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

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

and its container to hazardous or special waste collection point. If discarded, this product

is considered a RCRA ignitable waste, D001.

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:

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

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IMDG

Basic shipping requirements:

Proper shipping name AEROSOLS

Hazard class 2.1 UN number 1950

Additional information:

Packaging exceptions LTD QTY
Labels required None



IATA

Basic shipping requirements:

Proper shipping name Aerosols, flammable

Hazard class 2.1 UN number 1950

Additional information:

Packaging exceptions LTD QTY
Labels required 2.1



15. Regulatory Information

US federal regulationsThis 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

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely No

hazardous substance

Section 311 hazardous chemical Yes

Hazard categories (311/312) Immediate Hazard - Yes

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

Inventory status

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

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HMIS® ratings Health: 1

Flammability: 2 Physical hazard: 0

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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 in the sheet was written based on the best knowledge and experience currently available. 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 The information relates only to the specific material designated and may not be valid for such material used in combination with any

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MSDS sections updated Product and Company Identification: Product and Company Identification

Composition / Information on Ingredients: Ingredients

Physical & Chemical Properties: Physical & Chemical Properties

Prepared by Regulatory Compliance

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