

Company phone

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number 89°

Product name Orange Power Heavy Duty Degreaser

Effective date 08-May-2008

Company information Claire Manufacturing

500 Vista Ave.

Addison, IL 60101 United States General Assistance 630-543-7600

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

Version # 03

Supersedes date 08-May-2008

2. Hazards Identification

Emergency overview CONTENTS UNDER PRESSURE.

Aerosol. Pressurized container may explode when exposed to heat or flame.

Prolonged exposure may cause chronic effects.

OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard

Communication).

Potential health effects

Routes of exposure Skin contact. Ingestion.

Eyes Health injuries are not known or expected under normal use.

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

result in skin irritation and dermatitis (rash).

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

Prolonged inhalation may be harmful.

Ingestion Exposure by ingestion of an aerosol is unlikely. May cause delayed lung damage.

Components of the product may be absorbed into the body by ingestion.

Target organs Central nervous system. Lungs.

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.

May cause delayed lung damage.

Signs and symptoms Discomfort in the chest. Narcosis. Defatting of the skin. Irritation.

3. Composition / Information on Ingredients

Components	CAS#	Percent
d-Limonene	5989-27-5	10 - 15
n-Butane	106-97-8	10 - 15
Synthetic Isoparaffinic Hydrocarbon	64742-47-8	8 - 10
Odorless Mineral Spirits	64742-48-9	5 - 8
Propane	74-98-6	3 - 5
Polyethylene Glycol Nonylphenol Ether	9016-45-9	3 - 5
Non-hazardous and other components below reportable levels		40 - 60

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

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develops or persists.

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Skin contact

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

medical attention if irritation develops or persists.

Inhalation

Ingestion

Move to fresh air. If symptoms persist, get medical attention.

If material is ingested, immediately contact a poison control center. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not use mouth-to-mouth method if victim indested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

5. Fire Fighting Measures

Flammable properties

Containers may explode when heated. Vapor or gas may spread to distant ignition

Extinguishing media

Suitable extinguishing media

Protection of firefighters

Protective equipment and precautions for firefighters sources and flash back. Runoff to sewer may cause fire or explosion hazard.

Polymer foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet.

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

Personal precautions

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel awav.

Environmental precautions Methods for containment

Do not contaminate water.

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

Methods for cleaning up

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

Handling

Pressurized container: Do not pierce or burn, even after use. Do not handle or store near an open flame, heat or other sources of ignition. Do not reuse the empty container. Do not use if spray button is missing or defective. Use only with adequate ventilation. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid release to the environment. Avoid prolonged exposure.

Storage

Level 1 Aerosol.

Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Keep away from heat, sparks, and flame. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Avoid exposure to long periods of sunlight. Keep out of the reach of children. Use care in handling/storage. Level 1 Aerosol (NFPA 30B) Do not store, incinerate, or heat this material above 120 degrees Fahrenheit.

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

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Components	CAS#	TWA	STEL	Ceiling
Propane	74-98-6	1000 ppm	Not established	Not established

Engineering controls Use process enclosures, local exhaust ventilation, or other engineering controls to control

airborne levels below recommended exposure limits.

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 No personal respiratory protective equipment normally required. If permissible levels are

exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied

respirator.

9. Physical & Chemical Properties

Appearance Aerosol.

Boiling point 197.6 °F (92.2 °C) estimated

Color milky white

Flammability (HOC) 19.2152 kJ/g estimated

Flash back

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

Form Aerosol. Odor fruity 10 - 11 pН **Physical state** Liquid.

35 - 45 psig @70F **Pressure**

Solubility Partially

0.8465 estimated Specific gravity

10. Chemical Stability & Reactivity Information

Conditions to avoid Heat, flames and sparks.

Hazardous decomposition products No hazardous decomposition products are known.

11. Toxicological Information

Acute effects Acute LD50: 7386 mg/kg estimated, Rat, Dermal Sensitization Not expected to be hazardous by OSHA criteria.

Local effects Components of the product may be absorbed into the body through the skin.

Chronic effects Hazardous by OSHA criteria. Repeated absorption may cause disorder of central nervous

system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury.

Prolonged exposure may cause chronic effects.

Reproductive effects 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 435 mg/L estimated, Fish, 96.00 Hours, EC50 32552 mg/L estimated, Daphnia, 48.00 Hours, IC50 7512 mg/L estimated, Algae, 72.00 Hours,

Environmental effects An environmental hazard cannot be excluded in the event of unprofessional handling or

disposal.

13. Disposal Considerations

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

Disposal instructions

Contents under pressure. Dispose of this material and its container at hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. 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.

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 exceptions156, 306Packaging non bulk156, 306Packaging bulkNone

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 class2.1UN number1950

Additional information:

Packaging exceptions LTD QTY
Labels required None



15. Regulatory Information

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

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous Yes

chemical

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

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

Section 302 extremely No hazardous substance

Section 311 hazardous chemical Yes

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	No
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)	No
Korea	Existing Chemicals List (ECL)	No
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 74-98-6 Present Propane

16. Other Information

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

HMIS® ratings Flammability: 2

Physical hazard: 0

Prepared by Regulatory Compliance

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.

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

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