claire.

SAFETY DATA SHEET

1. Identification

Product number 1000008429

Product identifier ORANGE POWER HEAVY DUTY DEGREASER

Company information Claire Manufacturing Co.

1005 S. Westgate Drive Addison, IL 60101 United States

0 14 14 1000 540 500

Company phone General Assistance 1-630-543-7600

Emergency telephone US
Emergency telephone outside

1-866-836-8855 1-952-852-4646

US

Version # 01

Recommended useNot available. **Recommended restrictions**None known.

2. Hazard(s) identification

Physical hazardsFlammable aerosolsCategory 1Health hazardsSensitization, skinCategory 1

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Extremely flammable aerosol. May cause an allergic skin reaction.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing gas. Contaminated work clothing must not be allowed out of the workplace. Wear

protective gloves.

Response If on skin: Wash with plenty of water. Specific treatment (see this label). If skin irritation or rash

occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Storage Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|--------------------------------------|--------------------------|------------|----------|
| Butane | | 106-97-8 | 2.5 - 10 |
| Citrus Terpenes | | 94266-47-4 | 1 - 2.5 |
| Orange Terpenes | | 68647-72-3 | 1 - 2.5 |
| Propane | | 74-98-6 | 1 - 2.5 |
| Alcohols, C12-13, ethoxylated | | 66455-14-9 | 0.1 - 1 |
| Citrus aurantium dulcis (Orange) oil | | 8008-57-9 | 0.1 - 1 |

| Chemical name | Common name and synonyms | CAS number | % |
|--|--------------------------|------------|---------|
| Diethanolamine | | 111-42-2 | 0.1 - 1 |
| Sodium Dodecylbenzenesulfonate | | 25155-30-0 | 0.1 - 1 |
| Other components below reportable leve | els | | 80 - 90 |

^{#:} This substance has workplace exposure limit(s).

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Take off immediately all contaminated clothing. Wash the skin immediately with soap and water. Skin contact

Get medical attention if irritation develops and persists.

Eve contact Immediately flush eves with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Treat symptomatically.

Most important

symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

General information

Take off all contaminated clothing immediately. Wash contaminated clothing before reuse. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Direct contact with eyes may cause temporary irritation. May cause allergic skin reaction. Rash.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting

equipment/instructions

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.

General fire hazards

Extremely flammable aerosol.

6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up 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. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not handle or store near an open flame, heat or other sources of ignition. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not spray on a naked flame or any other incandescent material. Use only in well-ventilated areas. Provide adequate ventilation. Avoid breathing

dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes and clothing. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not re-use empty containers. Wear appropriate personal protective equipment. Observe good

Product name: ORANGE POWER HEAVY DUTY DEGREASER

industrial hygiene practices.

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Conditions for safe storage, including any incompatibilities

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Keep away from heat, sparks and open flame. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Level 1 Aerosol.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

 Components
 Type
 Value

 Propane (CAS 74-98-6)
 PEL
 1800 mg/m3 1000 ppm

US. ACGIH Threshold Limit Values

ComponentsTypeValueFormButane (CAS 106-97-8)STEL1000 ppmDiethanolamine (CAS
111-42-2)TWA1 mg/m3Inhalable fraction and vapor.

US. NIOSH: Pocket Guide to Chemical Hazards Components Value Type Butane (CAS 106-97-8) **TWA** 1900 mg/m3 800 ppm Diethanolamine (CAS **TWA** 15 mg/m3 111-42-2) 3 ppm Propane (CAS 74-98-6) **TWA** 1800 mg/m3 1000 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines

US - California OELs: Skin designation

Diethanolamine (CAS 111-42-2)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Diethanolamine (CAS 111-42-2)

Can be absorbed through the skin.

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear appropriate chemical resistant gloves.

Skin protection

Other Wear appropriate chemical resistant clothing.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene When using do not smoke. Always observe good personal hygiene measures, such as washing

considerations after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance Compressed liquefied gas.

Physical state Liquid.

Form Aerosol. Compressed gas.

Color white Odor fruity

Odor threshold Not available.

pH 9.5 - 10.5 estimated

Melting point/freezing point Not available.

Initial boiling point and boiling 196.95 °F (91.64 °C) estimated

range

Flash point -248.8 °F (-156.0 °C) Propellant estimated

Evaporation rateNot available.Flammability (solid, gas)Not available.Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 48 - 58 psig @70F estimated

Vapor density Not available.

Relative density 0.937 g/cm3 estimated estimated

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 392 °F (200 °C) estimated

Decomposition temperature Not available. **Viscosity** Not available.

Other information

Density 0.90 g/cm3 estimated
Flammability class Flammable IB estimated
Heat of combustion (NFPA 5.26 kJ/g estimated

30B)

Specific gravity 0.937 estimated estimated

VOC (Weight %) 9.66 % estimated

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Fluorine. Chlorine. Nitrates.

Hazardous decomposition No hazardous decomposition products are known.

products

11. Toxicological information

Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard.

Inhalation No adverse effects due to inhalation are expected.

Skin contact May cause an allergic skin reaction. Causes mild skin irritation.

Eye contact Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation. May cause allergic skin reaction.

Information on toxicological effects

Acute toxicity Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Product Test Results Species ORANGE POWER HEAVY DUTY DEGREASER (CAS Mixture) Dermal LD50 Rat 20679 mg/kg Inhalation LC50 Rat 88 mg/l/4h Oral LD50 Rat **Test Results** Components **Species** Alcohols, C12-13, ethoxylated (CAS 66455-14-9) Acute Dermal LD50 Rabbit 3300 mg/kg, 24 Hours Rat > 2000 mg/kg, 24 Hours Inhalation Rat LC50 > 100 mg/m3, 6 Hours > 1.6 mg/l, 4 Hours Oral LD50 Rat 7560 mg/kg Butane (CAS 106-97-8) **Acute** Inhalation LC50 Mouse 1237 mg/l, 120 Minutes 52 %, 120 Minutes Rat 1355 mg/l Diethanolamine (CAS 111-42-2) **Acute** Oral LD50 Rat 1100 mg/kg Propane (CAS 74-98-6) Acute Inhalation LC50 Mouse 1237 mg/l, 120 Minutes 52 %, 120 Minutes Rat 1355 mg/l 658 mg/l/4h Skin corrosion/irritation Causes mild skin irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation. irritation Respiratory or skin sensitization Respiratory sensitization Not a respiratory sensitizer. Skin sensitization May cause an allergic skin reaction. Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity IARC Monographs. Overall Evaluation of Carcinogenicity Diethanolamine (CAS 111-42-2) 2B Possibly carcinogenic to humans. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

This product is not expected to cause reproductive or developmental effects.

Not listed. Reproductive toxicity Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

Not classified.

repeated exposure

Product

Not an aspiration hazard. **Aspiration hazard**

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

| ORANGE POWER HEAVY DUTY DEGREASER (CAS Mixture) | | | | | |
|---|------|---------|----------------------|--|--|
| Aquatic | | | | | |
| Algae | IC50 | Algae | 4512 mg/L, 72 Hours | | |
| Crustacea | EC50 | Daphnia | 14062 mg/L, 48 Hours | | |
| Fish | LC50 | Fish | 521 mg/L, 96 Hours | | |
| Components | | Species | Test Results | | |

Test Results

Alcohols, C12-13, ethoxylated (CAS 66455-14-9)

Aquatic

EC50 Crustacea Water flea (Daphnia magna) 0.39 - 0.56 mg/l, 48 hours LC50 Fish Fathead minnow (Pimephales promelas) 0.72 - 2.7 mg/l, 96 hours

Diethanolamine (CAS 111-42-2)

Aquatic

Algae IC50 Algae 7.8 mg/L, 72 Hours Crustacea EC50 Daphnia 55 mg/L, 48 Hours Fish LC50 Fathead minnow (Pimephales promelas) 100 mg/l, 96 hours

Species

Sodium Dodecylbenzenesulfonate (CAS 25155-30-0)

Aquatic

Crustacea EC50 Water flea (Ceriodaphnia dubia) 3.26 - 14.51 mg/l, 48 hours LC50 Fish Rainbow trout, donaldson trout 3.2 - 5.6 mg/l, 96 hours (Oncorhynchus mykiss)

Persistence and degradability No data is available on the degradability of this product.

No data available. Bioaccumulative potential Partition coefficient n-octanol / water (log Kow)

2.89 Butane -1.43Diethanolamine Propane 2.36 Sodium Dodecylbenzenesulfonate 0.45

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied.

14. Transport information

DOT

UN1950 **UN** number

UN proper shipping name Aerosols, flammable, (each not exceeding 1 L capacity)

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

Special provisions N82
Packaging exceptions 306
Packaging non bulk None
Packaging bulk None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

IATA

UN number UN1950

UN proper shipping name Aerosols, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

Environmental hazards Yes **ERG Code** 10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only Allowed.

Packaging Exceptions LTD QTY

IMDG

UN number UN1950 UN proper shipping name AEROSOLS

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

Environmental hazards

Marine pollutant Yes
EmS F-D, S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

Packaging Exceptions LTD QTY

Transport in bulk according to Annex II of MARPOL 73/78 and

Not applicable.

the IBC Code



IATA; IMDG



Marine pollutant



General information

IMDG Regulated Marine Pollutant.

15. Regulatory information

US federal regulations

This 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.

Listed.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Diethanolamine (CAS 111-42-2)

Sodium Dodecylbenzenesulfonate (CAS 25155-30-0) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

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

SARA 302 Extremely hazardous substance

Chemical name CAS number Reportable **Threshold** Threshold **Threshold** quantity planning quantity planning quantity, planning quantity, lower value upper value

7664-41-7 500 lbs Anhydrous Ammonia 100

SARA 311/312 Hazardous No

chemical

Chemical nameCAS number% by wt.Diethanolamine111-42-20.1 - 1

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Diethanolamine (CAS 111-42-2)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulationsThis product does not contain a chemical known to the State of California to cause cancer, birth

defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Butane (CAS 106-97-8)

Diethanolamine (CAS 111-42-2)

Propane (CAS 74-98-6)

Sodium Dodecylbenzenesulfonate (CAS 25155-30-0)

US. New Jersey Worker and Community Right-to-Know Act

Butane (CAS 106-97-8)

Diethanolamine (CAS 111-42-2)

Propane (CAS 74-98-6)

Sodium Dodecylbenzenesulfonate (CAS 25155-30-0)

US. Pennsylvania Worker and Community Right-to-Know Law

Butane (CAS 106-97-8)

Diethanolamine (CAS 111-42-2)

Propane (CAS 74-98-6)

Sodium Dodecylbenzenesulfonate (CAS 25155-30-0)

US. Rhode Island RTK

Butane (CAS 106-97-8)

Diethanolamine (CAS 111-42-2)

Propane (CAS 74-98-6)

Sodium Dodecylbenzenesulfonate (CAS 25155-30-0)

US. California Proposition 65

United States & Puerto Rico

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Diethanolamine (CAS 111-42-2) Listed: June 22, 2012

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | Yes |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (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 |
| New Zealand | New Zealand Inventory | No |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |

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

Toxic Substances Control Act (TSCA) Inventory

Product name: ORANGE POWER HEAVY DUTY DEGREASER
Product #: 1000008429 Version #: 01 Issue date: 06-22-2015

Yes

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 06-22-2015

Version # 01

DisclaimerThe 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 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.