1. Identification

Product identifier: HydroForce® Super Citrus™
Product code No. 14440 (Item# 1004984)
Recommended use General purpose degreaser
Restrictions None known.
Manufactured or sold by:
CRC Industries, Inc., 885 Louis Drive, Warminster, PA 18974
Phone: 215-674-4300
Emergency phone number CHEMTREC - 24 HOURS: 800-424-9300

2. Hazard(s) identification

Physical hazards Gases under pressure (Liquefied gas)
Health hazards Skin corrosion/irritation (Category 2)
Serious eye damage/eye irritation (Category 2A)
Skin sensitization (Category 1)
Label elements (see front side of label)

3. Composition/information on ingredients

Hazardous components

Chemical name	CAS number	%
water	7732-18-5	60 – 70
1,1-difluoroethane	75-37-6	10 – 20
d-limonene	5989-27-5	5 – 10
tallow alkyl amines, ethoxylated	61791-26-2	1 – 3

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

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention. Wash contaminated clothing before reuse.
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 and persists.
Ingestion Call a physician or poison control center. Rinse mouth.
Most important symptoms/effects May cause an allergic skin reaction such as dermatitis and rash. Irritation of eyes and mucous membranes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards Contents under pressure. Pressurized container may rupture when exposed to heat or flame. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride and possibly phosgene.
Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do it without risk. Containers should be cooled with water to prevent vapor pressure build up.

6. Accidental release measures

Personal precautions Do not touch damaged containers or spilled material unless wearing appropriate protective equipment. Ensure adequate ventilation. Avoid breathing mist or vapor. Emergency personnel need self-contained breathing equipment.
Containment and cleaning up Eliminate all ignition sources. Keep combustibles away from spilled material. Wipe up with absorbent material (e.g. cloth, fleece) and place into containers. Clean surface thoroughly to remove residual contamination. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Handling Pressurized container: Do not pierce or burn, even after use. Do not smoke while using or until sprayed surface is thoroughly dry. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate protective equipment. Wash thoroughly after handling.
Storage Store in a cool, dry place (below 120 °F/49 °C) and out of direct sunlight. Store in a well-ventilated place away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits

Components	Type	Value
1,1-difluoroethane	TWA	1000 ppm
d-limonene	TWA	30 ppm

Appropriate engineering controls Mechanical ventilation or local exhaust ventilation is recommended.
Individual protection measures:
Eye/face protection Wear safety glasses with side shields (or goggles).
Skin protection Wear protective gloves such as nitrile or rubber.
Respiratory protection If needed, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies.

9. Physical and chemical properties

Appearance Creamy white liquid.
Odor threshold Not available.
Melting point/freezing point -140 °F (-96 °C)
Flash point None.
Explosive limit - lower (%) 0.7
Vapor pressure 1230 hPa
Relative density 0.96
Partition coefficient (n-octanol/water) Not available.
Decomposition temperature Not available.
VOC (Weight %): 9.8% (0.8 lb/gal, 94.7 g/L)
Odor Citrus.
pH 10
Initial boiling point 212 °F (100 °C)
Evaporation rate Slow.
Explosive limit - upper (%) 23.5
Vapor density > 1 (air = 1)
Solubility(ies) Soluble in water.
Auto-ignition temperature 302 °F (150 °C)
Viscosity Not available.

10. Stability and reactivity

Reactivity Non-reactive
Chemical stability Stable
Possibility of hazardous reactions No
Conditions to avoid Heat, flames and sparks. Sunlight. Extreme temperatures. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride and possibly phosgene.
Incompatible materials Strong oxidizing agents. Strong acids.
Hazardous decomposition products Oxides of d-limonene. Hydrogen chloride. Phosgene. Carbon oxides.

11. Toxicological information

Information on likely routes of exposure:
Ingestion Expected to be a low ingestion hazard.
Inhalation Prolonged inhalation may be harmful.
Skin contact Causes skin irritation. May cause an allergic skin reaction.
Eye contact Causes serious eye irritation.
Information on toxicological effects:
Acute toxicity Not known.
Respiratory sensitization Not a respiratory sensitizer.
Skin sensitization May cause an allergic skin reaction.
Carcinogenicity Not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.
Reproductive toxicity Not expected to cause reproductive or developmental effects.
Aspiration hazard Not an aspiration hazard.
Chronic effects Prolonged exposure may cause chronic effects.

12. Ecological information

See full SDS for additional information

13. Disposal considerations

Disposal instructions The dispensed liquid product is not a RCRA hazardous waste. Empty containers may be recycled.
Hazardous waste code Not regulated.

14. Transport information

DOT shipping description: UN1950, Aerosols, non-flammable, 2.2, limited quantity

15. Regulatory information

SARA 313 None
See full SDS for additional information

16. Other information

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