



Safety Data Sheet

EXTRACTION ZONE

OptiShield Citrus Force

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: OptiShield Citrus Force
Common Name: Citrus Carpet Cleaner
SDS Number: 120100-SDS
Product Code: 120100
Revision Date: 8/19/2025
Version: 1
Product Use: Carpet Cleaning
Use only as directed
Instructions: Professional Use Only
Supplier Details: EXTRACTION ZONE
PO Box 262
Strasburg, CO 80136
Contact: Customer Service
Phone: 720.374.2375
Web: www.extractionzone.com
Emergency: Infotrac 1-800-535-5053 (North America) 1-352-323-3500 (International)

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Physical, Flammable Liquids, 3
Health, Skin corrosion/irritation, 2
Health, Serious Eye Damage/Eye Irritation, 2 A
Health, Respiratory or skin sensitization, 1 Skin
Environmental, Hazards to the aquatic environment - Acute, 1
Environmental, Hazards to the aquatic environment - Chronic, 1
Health, Serious Eye Damage/Eye Irritation, 2 B
Health, Aspiration hazard, 1
Health, Acute toxicity, 4 Dermal

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H226 - Flammable liquid and vapour
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H317 - May cause an allergic skin reaction
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H320 - Causes eye irritation
H304 - May be fatal if swallowed and enters airways
H312 - Harmful in contact with skin

GHS Precautionary Statements:

P210 - Keep away from heat/sparks/open flames/hot surfaces.
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.



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P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 - Wash skin thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 - Specific treatment (see supplemental first aid instructions on this label).
P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 - If eye irritation persists: Get medical advice/ attention.
P362 - Take off contaminated clothing and wash before reuse.
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P391 - Collect spillage.
P403 + P235 - Store in a well-ventilated place. Keep cool.
P501 - Dispose of contents/ container to an approved waste disposal plant.

3 COMPOSITION/INFORMATION OF INGREDIENTS

This material is considered hazardous by the OSHA Hazardous Communication Standard (29 CFR 1910.1200)

Chemical Ingredients

CAS#	%	Chemical Name
5989-27-5	40-50%	d-Limonene
64742-48-9	50-60%	Naphtha (petroleum), hydrotreated heavy

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4 FIRST AID MEASURES

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

Skin Contact: Remove contaminated clothing immediately. Promptly flush skin with water until all chemical is removed. If irritation persists get medical attention.

Eye Contact: Do not rub affected area. Immediately flush eyes with large amounts of water for at least 15 minutes keeping eyes wide open and lifting eyelids occasionally to facilitate irrigation. After initial flush remove contacts, if present, and continue to flush for 15 minutes.

Ingestion: Do NOT induce vomiting or attempt chemical neutralization. Bring to the attention of a physician. Get prompt, qualified medical attention.

5 FIRE FIGHTING MEASURES

Flammability: Flammable
Flash Point: 115°F/ 46°C
Flash Point Method: Calculation
Use water fog, carbon dioxide (CO2), foam or dry chemical.
Caution: Use of water spray when fighting fire may be inefficient

6 ACCIDENTAL RELEASE MEASURES

Do not discharge into drains.
Use personal protective equipment. Ventilate area and wash spill site after material pickup is complete.



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Ground/bond container and receiving equipment. Take precautionary measures against static discharge.

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HANDLING AND STORAGE

Handling Precautions:

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precaution measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools.

Warning

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

Advice on general occupational hygiene

Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

Storage Requirements:

Keep in a cool ventilated area. Keep container tightly closed. Keep out of reach of children

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

d-Limonene cas#:(5989-27-5) [4050] : No data.

Personal Protective Equipment:

HMIS PP, B | Safety Glasses, Gloves
Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 480 min
Material tested:Camatril (KCL 730 / Aldrich Z677442, Size M)

Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 31 min
Material tested:Dermatril (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).



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Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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9	PHYSICAL AND CHEMICAL PROPERTIES
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Appearance:	Clear Slightly Amber		
Physical State:	Liquid	Odor:	Citrus
Odor Threshold:	No data available		
		Solubility:	Miscible in water
Spec Grav./Density:	0.815 +/- .005		
Viscosity:	0 cP	Percent Volatile:	>95.0%
Boiling Point:	154°C / 310°F	Freezing/Melting Pt.:	No Freeze/Melt Point
Flammability:	Flammable	Flash Point:	46°C / 115°F
Partition Coefficient:	No data available		
Vapor Pressure:	No data available	Vapor Density:	No data available
pH:	Solvent Based - No pH		
Evap. Rate:	Slower than water		
		Auto-Ignition Temp:	No data available
Decomp Temp:	No data available	UFL / LFL:	No data available

10	STABILITY AND REACTIVITY
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Reactivity:	None under normal processing
Chemical Stability:	Product is stable under normal conditions.
Conditions to Avoid:	Avoid heat, sparks, flames and direct sunlight
Materials to Avoid:	Strong Oxidizing Agents.
Hazardous Decomposition:	Oxides of Carbon.
Hazardous Polymerization:	Will not occur.

11	TOXICOLOGICAL INFORMATION
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d-Limonene cas#:(5989-27-5) [4050]

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 4,400 mg/kg Remarks: Behavioral:Change in motor activity (specific assay). Respiratory disorder Skin and Appendages: Other: Hair. Inhalation: Irritating to respiratory system.
LD50 Dermal - rabbit - > 5,000 mg/kg
no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available



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Respiratory or skin sensitisation: May cause sensitisation by skin contact.

Germ cell mutagenicity: no data available

Carcinogenicity:

Carcinogenicity - rat - Oral:

Tumorigenic: Carcinogenic by RTECS criteria. Kidney, Ureter, Bladder: Kidney tumors. Tumorigenic Effects: Testicular

Carcinogenicity - mouse - Oral:

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Gastrointestinal: Tumors.

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (D-Limonene)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: GW6360000

Liver - Irregularities - Based on Human Evidence

12	ECOLOGICAL INFORMATION
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Information on ecological effects

Toxicity:

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 0.702 mg/l - 96.0 h.

Toxicity to daphnia and EC50 - Daphnia pulex (Water flea) - 69.6 mg/l - 48 h.

other aquatic

invertebrates

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

13	DISPOSAL CONSIDERATIONS
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Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

14 TRANSPORT INFORMATION

UN1993, Flammable liquids, n.o.s., ((Aliphatic Hydrocarbons, Terpenes)), 3, PG III

ERG = 128



15 REGULATORY INFORMATION

	Naphtha (petroleum), hydrotreated heavy	d-Limonene
CAS #	64742-48-9	5989-27-5
Percent Range	50.0% - 60.0%	40.0% - 50.0%
TSCA	Registered	Registered
SARA 302/304	Not Applicable	Not Applicable
SARA 311/312	Yes, flammable, eye & skin irritation, skin sensitization, aspiration hazard	Yes, flammable, eye & skin irritation, skin sensitization, aspiration hazard
SARA 313	Not Applicable	Not Applicable
CERCLA	Not Applicable	Not Applicable
Clean Water Act	Do not discharge into waterways	
US State Regulations: Workers Right-To-Know and/or Community Right-To- Know and/or Substance List	CA: Listed NY: Listed NJ: Listed MA: Listed PA: Listed IL: Listed FL: Not Listed	CA: Listed NY: Listed NJ: Listed MA: Listed PA: Listed IL: Listed FL: Not Listed
RCRA	D001: Ignitable	

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Regulatory Code Legend



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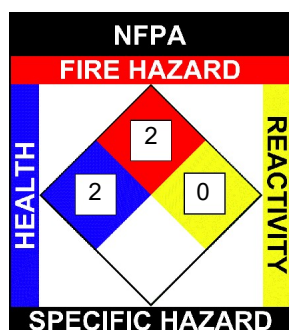
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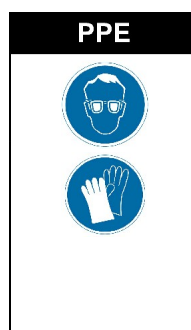
TSCA = Toxic Substances Control Act
TSCAACTV = TSCA Active Chemicals

16 OTHER INFORMATION

NFPA: Health = 2, Fire = 2, Reactivity = 0, Specific Hazard = n/a
HMIS III: Health = 2(Chronic), Fire = 2, Physical Hazard = 0
HMIS PPE: B - Safety Glasses, Gloves



HMIS	
HEALTH	2
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B



The information provided in this Safety Data Sheet is correct to the best of our knowledge at the date of its publication. The information given is designed only as a guide 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 other process, unless specified in the text.

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