

SAFETY DATA SHEET

CITRUS SCRUB 'N SHINE #12

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

- Product name** : CITRUS SCRUB 'N SHINE #12
Product No. : 00425SC
Use of the substance/preparation : Combination floor cleaner and restorer
Company/undertaking identification
- Manufacturer** : Essential Industries, Inc.
P.O. Box 12
28391 Essential Rd.
Merton, WI 53056-0012 USA
- Supplier** : Essential Industries, Inc.
P.O. Box 12
28391 Essential Rd.
Merton, WI 53056-0012 USA
- Emergency telephone number** : 001-262-821-7814

2. Composition/information on ingredients

Substance/Preparation : Preparation

Ingredient Name	CAS number	%	EC Number	Classification
(R)-p-Mentha-1,8-diene	5989-27-5	10	227-813-5	R10 Xi; R38 R43
propan-2-ol	67-63-0	1-5	200-661-7	N; R50/53 F; R11 Xi; R36 R67
poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- See Section 16 for the full text of the R Phrases declared above	9016-45-9	1-5	500-024-6	Xn; R22

* Occupational Exposure Limit(s), if available, are listed in section 8

3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

- Classification** : R10
Xi; R36/38-43
N; R51/53
- Human health hazards** : May cause sensitization by skin contact.
Contains (R)-p-Mentha-1,8-diene. May produce an allergic reaction.
- Environmental Hazards** : Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
See Section 11 for more detailed information on health effects and symptoms.

4. First aid measures

First aid measures

- Inhalation** : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
- Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

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- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
- Eye contact** : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
- Specific treatments** : None identified.

See Section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

- Extinguishing media** : Use foam or all purpose dry chemicals to extinguish. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Special exposure hazards** : No specific hazard.
Not available.
- Hazardous thermal decomposition products** : None identified.
- Special protective equipment for fire-fighters** : Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
- Remark** : No additional remark.

6. Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).
- Environmental Precautions and Clean-up Methods** : Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information.
If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Note: See section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

- Handling** : Avoid contact with skin and clothing. Avoid contact of spilled material and runoff with soil and surface waterways. Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.
- Packaging materials**
- Recommended** : Use original container.
- Specific uses** : Industrial applications

8. Exposure controls/personal protection

<u>Ingredient Name</u>	<u>Occupational Exposure Limits</u>
propan-2-ol	EH40-OES (United Kingdom (UK), 2002). STEL: 1250 mg/m ³ 15 minute(s). STEL: 500 ppm 15 minute(s). TWA: 999 mg/m ³ 8 hour(s). TWA: 400 ppm 8 hour(s).

- Recommended monitoring procedures** : Good general ventilation should be sufficient to control airborne levels.
- Exposure controls**
- Occupational exposure controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.
- Respiratory protection** : A respirator is not needed under normal and intended conditions of product use.
- Hand protection** : Use latex gloves.
- Eye protection** : Safety glasses.

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Skin protection : Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Appropriate techniques should be used to remove potentially contaminated clothing.

9. Physical and chemical properties

General information

Appearance

Physical state : Liquid.
Color : Amber.
Odor : Citrus.

Important health, safety and environmental information

pH : 11.0 - 12.5
Boiling Point : The lowest known value is 82.55°C (180.6°F) (propan-2-ol). Weighted average: 109.67°C (229.4°F)
Melting Point : May start to solidify at 0°C (32°F) based on data for: water. Weighted average: -4.23°C (24.4°F)
Flash point : 113°F 45°C (C.C.)
Flammability (solid, gas) : Not applicable.
Explosive properties : Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.
Oxidizing Properties : Not available.
Relative density : Weighted average: 0.96 g/cm³
Solubility : Easily soluble in cold water, hot water, methanol, acetone.
Octanol/water partition coefficient : Not determined.
Viscosity : Not determined.
Vapor Density : The highest known value is 2.07 (Air = 1) (propan-2-ol).
Evaporation rate (butyl acetate = 1) : The highest known value is 1.7 (propan-2-ol) Weighted average: 0.42 compared to Butyl acetate.

Other information

10. Stability and reactivity

Stability : The product is stable.
Conditions to avoid : None.
Materials to avoid : None.
Hazardous decomposition products : None identified.

11. Toxicological information

Potential Acute Health Effects

Inhalation : May cause respiratory tract irritation.
Ingestion : May irritate digestive tract.
Skin contact : Prolonged or repeated contact may dry skin and cause irritation. May cause sensitization by skin contact.
Eye contact : Direct contact may cause irritation and redness.

Acute toxicity

<u>Ingredient Name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
(R)-p-Mentha-1,8-diene	LD50	4400 mg/kg	Oral	Rat
	LD50	5600 mg/kg	Oral	Mouse
propan-2-ol	LD50	5045 mg/kg	Oral	Rat
	LD50	6410 mg/kg	Oral	Rabbit
	LD50	3600 mg/kg	Oral	Mouse
	LD50	12800 mg/kg	Dermal	Rabbit
	LDLo	1537 mg/kg	Oral	Dog
LDLo	3570 mg/kg	Oral	human	

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LDLo 5272 mg/kg Oral man
LD50 1310 mg/kg Oral Rat

poly(oxy-1,2-ethanediyl),
.alpha.-(nonylphenyl)-.omega.-hydro:

Carcinogenicity : No carcinogenic effect known.

Mutagenicity : No mutagenic effect.

Reproductive toxicity : No teratogenic effect.

Over-exposure signs/symptoms

Target Organs : Contains material which causes damage to the following organs: upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Other adverse effects : Not available.

12. Ecological information

Ecotoxicity Data

<u>Ingredient Name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
(R)-p-Mentha-1,8-diene	Daphnia pulex (EC50)	48 hour(s)	69.6 mg/l
	Pimephales promelas (LC50)	96 hour(s)	0.702 mg/l
propan-2-ol	Pimephales promelas (EC50)	48 hour(s)	10000 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	>1400 mg/l
	Pimephales promelas (LC50)	96 hour(s)	6550 mg/l
	Pimephales promelas (LC50)	96 hour(s)	9640 mg/l
	Pimephales promelas (LC50)	96 hour(s)	10400 mg/l
	Pimephales promelas (LC50)	96 hour(s)	11130 mg/l
poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-	Lepomis macrochirus (LC50)	96 hour(s)	1.3 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	4.7 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	7.6 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	7.9 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	>10 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	>1000 mg/l

Mobility : Not available.

Other adverse effects : Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

13. Disposal considerations

Methods of disposal : Avoid contact of spilled material and runoff with soil and surface waterways. Dispose of according to all federal, state and local applicable regulations.

Waste Classification : Not applicable.

European Waste Catalogue (EWC) : Not available.

Hazardous Waste : The classification of the product may meet the criteria for a hazardous waste

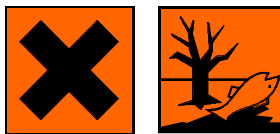
14. Transport information

International transport regulations

<u>Regulatory information</u>	<u>UN number</u>	<u>Proper shipping name</u>	<u>Class</u>	<u>Packing Group</u>	<u>Label</u>	<u>Additional information</u>
ADR/RID Class	Not Regulated.	-	-	-		-
ADN Class	Not Regulated.	-	-	-		-
IMDG Class	Not Regulated.	-	-	-		-
IATA-DGR Class	Not Regulated.	-	-	-		-

15. Regulatory information**EU Regulations****Hazard symbol(s)**

:



Irritant, Dangerous for the environment

Risk phrases

:

R10- Flammable.
R36/38- Irritating to eyes and skin.
R43- May cause sensitization by skin contact.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

:

S2- Keep out of the reach of children.
S24- Avoid contact with skin.
S28- After contact with skin, wash immediately with plenty of water
S29- Do not empty into drains.
S37- Wear suitable gloves.
S46- If swallowed, seek medical advice immediately and show this container or label.

Contains

:

(R)-p-Mentha-1,8-diene 227-813-5

Product Use

:

Classification and labeling have been performed according to EU directives 67/548/EEC, 1999/45/EC including amendments and the intended use.
- Industrial applications

Additional Warning Phrases

:

Contains (R)-p-Mentha-1,8-diene. May produce an allergic reaction.

EC Statistical Classification

:

32089091

(Tariff Code)**National regulations****16. Other information****Full text of R phrases referred to in Sections 2 and 3 - United Kingdom (UK)**

:

R11- Highly flammable.
R10- Flammable.
R22- Harmful if swallowed.
R36- Irritating to eyes.
R38- Irritating to skin.
R43- May cause sensitization by skin contact.
R67- Vapors may cause drowsiness and dizziness.
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of classifications referred to in Sections 2 and 3 - United Kingdom (UK)

:

F - Highly flammable
Xn - Harmful
Xi - Irritant
N - Dangerous for the environment.

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