

Material Safety Data Sheet

Citrus Cleaner - Degreaser

1. Product and company identification

Product name	Citrus Cleaner - Degreaser	In case of emergency	1-800-843-6174
Code	1013325	Validation date	8/5/2010.
Material uses	All purpose cleaner/degreaser	Print date	8/5/2010.
Supplier	Ace Hardware Corp. 2200 Kensington Court Oak Brook, IL 60523-2100 Phone: 630-990-6600	Responsible name	Regulatory Affairs Department

Hazardous Material Information System (U.S.A.)

Health	1	HAZARD RATING
Flammability	2	4 = Extreme 3 = High 2 = Moderate 1 = Slight 0 = Insignificant
Physical hazards	0	
Personal protection	B	

A = Goggles B = Goggles & Gloves C = Goggles, Gloves & Apron

2. Hazards identification

Emergency overview WARNING!
FLAMMABLE LIQUID AND VAPOR. COMBUSTIBLE. MAY BE HARMFUL IF SWALLOWED. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.
Flammable liquid. May be harmful if swallowed. Keep away from heat, sparks and flame. Do not ingest. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Contains material that may cause target organ damage, based on animal data. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Routes of entry Ingestion.

Potential acute health effects due to overexposure

Inhalation Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion May be harmful if swallowed.

Skin May cause skin irritation.

Eyes May cause eye irritation.

Potential chronic health effects due to overexposure

Carcinogenicity No known significant effects or critical hazards.

Mutagenicity No known significant effects or critical hazards.

Teratogenicity No known significant effects or critical hazards.

Developmental effects No known significant effects or critical hazards.

Fertility effects No known significant effects or critical hazards.

See toxicological information (section 8)

3. Composition/information on ingredients

Name	CAS number	%
2-aminoethanol	141-43-5	1 - 5

4. First aid measures

Eye contact Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

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. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation Move exposed person to fresh air. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention immediately.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

5. Fire-fighting measures

Flammability of the product	Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
Extinguishing media	
Suitable	Use dry chemical, CO ₂ , water spray (fog) or foam.
Special exposure hazards	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Special remarks on explosion hazards	Non Explosive.
Flash point	Closed cup: 52.222°C (126°F)
Flammable limits	Combustible Liquid.

6. Control and preventive measures

Storage	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
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Ingredient	Exposure limits
2-aminoethanol	OSHA PEL (United States, 11/2006). TWA: 3 ppm 8 hour(s).

Personal protection

Respiratory	None required with adequate ventilation.
Hands	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Skin	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Eyes	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Methods for cleaning up

Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
Waste disposal	Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

7. Physical and chemical properties

Physical state	Liquid	Boiling/condensation point	100°C (212°F)
Color	Colorless	Melting/freezing point	0°C (32°F)
Odor	Citrus	Vapor pressure	<4 kPa (<30 mm Hg)
VOC	4.5%	Vapor density	<1 [Air = 1]
pH	10.4 - 11.0	Weight per Gallon:	8.33 lbs./gal
1% pH:	8.8	Specific Gravity:	1.00 gm/ml
Solubility	Complete		

8. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-aminoethanol	LD50 Oral	Rat	1720 mg/kg	-

Conclusion/Summary	To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated.
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Chronic toxicity

Conclusion/Summary	Not available
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9. Transport information						
Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated	-	-	-		

PG* : Packing group