

Description

The 433 *d-Limonene* is a food grade, natural orange extract. It is a biodegradable product with a pleasant odor.

Application

The 433 will dissolve HIPS (High Impact Polystyrene) used in 3D printing applications for creating support material.

It can also be used for many other applications, such as removing adhesives and tar, cleaning floors, and degreasing. It also works well as a hand cleaner, a release agent, and as graffiti remover.

It can replace petroleum-derived products in many different applications.

Benefits

- **Biodegradable solvent and cleaning agent**
- **100% bio-based (free of any petroleum product)**
- **Rated GRAS (Generally Recognized As Safe)**
- **RoHS Compliant**

d-Limonene Properties

<i>Physical Properties</i>	<i>Value</i>
Color	Clear
Appearance	Colorless
Specific Gravity @25 °C	0.841 ±0.03
Water solubility	Immiscible
Refractive Index	1.472–1.474
Optical Rotation @25 °C	+96° to +104°
Flash Point, Closed Cup	>43 °C [>110 °F]
Percent d-Limonene	95–98.5%

Health and Safety

Please see the 8351 **Safety Data Sheet** (SDS) for more details on transportation, storage, handling and other security guidelines.

Environmental Impact: The volatile organic content is >95%% by EPA and WHMIS standards. It is toxic to aquatic life in high concentration. Please dispose of in accordance to local/regional/national/international regulations.



This product meets the European Directive 2011/65/EU Annex II (ROHS); recasting 2002/95/EC.

Health and Safety: May cause allergic reaction and skin irritation in some individuals. Wash hands thoroughly after use. Aspiration of d-limonene into the lung

HMIS® RATING

HEALTH:	* 2
FLAMMABILITY:	3
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

Approximate HMIS and NFPA Risk Ratings Legend:

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

Application Instructions

To dissolve 3D support structures

1. Place the d-limonene solution in a sealable container.
2. Place the print in the jar.

Packaging and Supporting Products

Product Availability

<i>Cat. No.</i>	<i>Form</i>	<i>Net Volume</i>	
433-1L	Liquid	1 L	1.1 qt
433-4L	Liquid	4 L	1.1 gal

Technical Support

Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at www.mgchemicals.com.

Email: support@mgchemicals.com

Phone: +1-800-340-0772 Ext. 1030 (Canada, Mexico & USA)

+1-905-331-1396 Ext. 1030 (International)

Fax: +1-905-331-2862 or +1-800-340-0773

Mailing address: **Manufacturing & Support**
1210 Corporate Drive
Burlington, Ontario, Canada
L7L 5R6

Head Office
9347-193rd Street
Surrey, British Columbia, Canada
V4N 4E7

Warranty

M.G. Chemicals Ltd. warrants this product for 12 months from the date of purchase by the end user. *M.G. Chemicals Ltd.* makes no claims as to shelf life of this product for the warranty. The liability of *M.G. Chemicals Ltd.* whether based on its warranty, contracts, or otherwise shall in no case include incidental or consequential damage.

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