



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

<b>Product Name</b>	Dynamic Hand Cleaner
<b>Synonym(s)</b>	AZ302500 AZ302700
<b>CAS #</b>	Mixture
<b>Product Use</b>	Waterless Hand Cleaner
<b>Manufacturer</b>	Dynamic Paint Products Inc. 7040 Financial Drive Mississauga, ON L5N 7H5 CA Phone: 1-905-812-9319 Emergency Phone: 1-613-996-6666 (CANUTEC)

## 2. Hazards Identification

<b>Emergency Overview</b>	CAUTION Contact may cause eye irritation.
<b>Potential short term health effects</b>	
<b>Routes of exposure</b>	Eye, Skin contact, Skin absorption, Ingestion.
<b>Eyes</b>	May cause irritation.
<b>Skin</b>	Prolonged or repeated skin contact may cause skin irritation or allergic skin sensitization reaction.
<b>Inhalation</b>	None expected during normal conditions of use.
<b>Ingestion</b>	May cause stomach distress, nausea or vomiting.
<b>Target organs</b>	Eyes. Skin.
<b>Chronic effects</b>	May cause skin sensitization in sensitive individuals.
<b>Signs and symptoms</b>	Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
<b>Potential environmental effects</b>	This product has not been tested.

## 3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
Limonene	5989-27-5	5 - 10

## 4. First Aid Measures

<b>First aid procedures</b>	
<b>Eye contact</b>	Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.
<b>Skin contact</b>	In case of skin irritation, discontinue use of product. Flush with cool water.
<b>Inhalation</b>	Not a normal route of exposure.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
<b>General advice</b>	If you feel unwell, seek medical advice (show the label where possible). Avoid contact with eyes. Keep out of reach of children.

## 5. Fire-fighting Measures

<b>Flammable properties</b>	Not flammable by WHMIS criteria.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Carbon dioxide. Dry chemical. Foam.
<b>Unsuitable extinguishing media</b>	Not available

<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Not available
<b>Protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available
<b>Sensitivity to static discharge</b>	Not available

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## 6. Accidental Release Measures

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<b>Personal precautions</b>	Surfaces may become slippery after spillage.
<b>Environmental precautions</b>	Do not contaminate water.
<b>Methods for containment</b>	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for cleaning up</b>	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

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## 7. Handling and Storage

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<b>Handling</b>	Use good industrial hygiene practices in handling this material.
<b>Storage</b>	Store in a closed container away from incompatible materials. Keep out of reach of children.

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## 8. Exposure Controls / Personal Protection

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<b>Exposure limit values</b>	
<b>Ingredient(s)</b>	<b>Exposure limit values</b>
Limone	<b>ACGIH-TLV</b> Not established
<b>Engineering controls</b>	General ventilation normally adequate.
<b>Personal protective equipment</b>	
<b>Eye/Face protection</b>	Not normally required.
<b>Hand protection</b>	Not required.
<b>Skin and body protection</b>	As required by employer code.
<b>Respiratory protection</b>	Not normally required.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

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## 9. Physical and Chemical Properties

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<b>Appearance</b>	Viscous.
<b>Colour</b>	Orange
<b>Form</b>	Cream.
<b>Odour</b>	Orange Citrus
<b>Odour threshold</b>	Not available
<b>Physical state</b>	Liquid
<b>pH</b>	6.5 - 7.5
<b>Freezing point</b>	Not available
<b>Boiling point</b>	Not available
<b>Pour point</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Flash point</b>	Not available
<b>Auto-ignition temperature</b>	Not available

<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Flammability Limits in Air, Upper, % by Volume</b>	Not available
<b>Vapour pressure</b>	Not available
<b>Vapour density</b>	Not available
<b>Specific gravity</b>	0.99
<b>Octanol/water coefficient</b>	Not available
<b>Solubility (H2O)</b>	Soluble
<b>Viscosity</b>	Viscous
<b>Percent volatile</b>	7.83

## 10. Stability and Reactivity

<b>Reactivity</b>	None known.
<b>Possibility of hazardous reactions</b>	Hazardous polymerisation does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals.
<b>Incompatible materials</b>	Oxidizers.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon.

## 11. Toxicological Information

### Component analysis - LC50

Ingredient(s)	LC50
Limonene	Not available

### Component analysis - Oral LD50

Ingredient(s)	LD50
Limonene	4400 mg/kg rat; 5600 mg/kg mouse

### Effects of acute exposure

<b>Eye</b>	May cause irritation.
<b>Skin</b>	Prolonged or repeated skin contact may cause skin irritation or allergic skin sensitization reaction.
<b>Inhalation</b>	None expected during normal conditions of use.
<b>Ingestion</b>	May cause stomach distress, nausea or vomiting.
<b>Sensitisation</b>	Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
<b>Chronic effects</b>	Non-hazardous by WHMIS criteria.
<b>Carcinogenicity</b>	Non-hazardous by WHMIS criteria.
<b>IARC - Group 3 (Not Classifiable)</b>	
Limonene	5989-27-5 Monograph 73 [1999] (overall evaluation downgraded from 2B to 3 with supporting evidence from other relevant data)
<b>Mutagenicity</b>	Non-hazardous by WHMIS criteria.
<b>Reproductive effects</b>	Non-hazardous by WHMIS criteria.
<b>Teratogenicity</b>	Non-hazardous by WHMIS criteria.
<b>Name of Toxicologically Synergistic Products</b>	Not available

## 12. Ecological Information

<b>Ecotoxicity</b>	Components of this product have been identified as having potential environmental concerns.
<b>Ecotoxicity - Freshwater Fish - Acute Toxicity Data</b>	
Limonene	5989-27-5 96 Hr LC50 Pimephales promelas: 0.619-0.796 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 35 mg/L
<b>Persistence and degradability</b>	Not available
<b>Bioaccumulation/accumulation</b>	Not available

<b>Mobility in environmental media</b>	Not available
<b>Environmental effects</b>	Not available
<b>Aquatic toxicity</b>	Not available
<b>Partition coefficient</b>	Not available
<b>Chemical fate information</b>	Not available
<b>Other adverse effects</b>	Not available

### 13. Disposal Considerations

<b>Disposal instructions</b>	Review federal, provincial, and local government requirements prior to disposal.
<b>Waste from residues / unused products</b>	Not available
<b>Contaminated packaging</b>	Not available

### 14. Transport Information

**Transportation of Dangerous Goods (TDG - Canada)**  
 Not regulated as dangerous goods.

### 15. Regulatory Information

**Canadian federal regulations** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**Canada - WHMIS - Ingredient Disclosure List**

Limonene 5989-27-5 1 %

**WHMIS classification** Exempt - Notified cosmetic under the Food & Drugs Act

**Inventory Status**

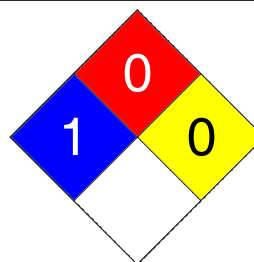
Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

### 16. Other Information

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 1
Flammability	0
Physical Hazard	0
Personal Protection	



**Disclaimer**

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

<b>Issue date</b>	01-Feb-2011
<b>Effective Date</b>	01-Feb-2011
<b>Expiry Date</b>	01-Feb-2014
<b>Prepared by</b>	Dell Tech Laboratories Ltd. (519) 858-5021
<b>Other Information</b>	For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.