

# Safety Data Sheet: DYNASOLVE

Supersedes Date 11/30/2010

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** DYNASOLVE  
**Recommended use** Solvent  
**Information on Manufacturer**  
Partsmaster, Div of NCH Corp.  
P.O. Box 655326  
Dallas, TX 75265-5326

**Product Code** 0382  
**Chemical nature** Petroleum distillates  
**Emergency Telephone Number**  
CHEMTREC® 800-424-9300  
**Telephone inquiry**  
972-579-2477

## 2. HAZARD IDENTIFICATION

**Color** Colorless

**Physical State** Liquid

**Odor** Citrus

### GHS

#### Classification

##### Physical Hazards

Flammable liquids

Category 4

##### Health Hazard

Aspiration Toxicity

Category 1

Acute Inhalation Toxicity - Vapors

Category 3

Acute Inhalation Toxicity - Dusts and Mists

Category 3

Skin Corrosion/Irritation

Category 2

Serious Eye Damage/Eye Irritation

Category 2B

Respiratory Sensitization

Category 1

Skin Sensitization

Category 1

Specific target organ systemic toxicity (single exposure)

Category 3

Specific target organ systemic toxicity (repeated exposure)

Category 2

##### Other hazards

None

### Labeling

#### Signal Word

**DANGER**



#### Hazard Statements

H227 - Combustible liquid

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H320 - Causes eye irritation

H331 - Toxic if inhaled

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H336 - May cause drowsiness or dizziness

H304 - May be fatal if swallowed and enters airways

H373 - May cause damage to organs through prolonged or repeated exposure

#### Precautionary Statements

P280 - Wear protective gloves, protective clothing and eye protection.

P210 - Keep away from heat, sparks, open flames or hot surfaces.

P270 - Do not eat, drink or smoke when using this product

P260 - Do not breathe vapor or mist

P271 - Use in a well-ventilated area.

P285 - In case of inadequate ventilation wear respiratory protection

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace

P302+ P352 - IF ON SKIN: Wash with plenty of soap and water

P333 - If skin irritation or rash occurs get medical attention.

P362 - Take off contaminated clothing and wash before reuse

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists, get medical attention.

P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P342 + P311 - If experiencing respiratory symptoms, call a physician

P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a physician if unwell.

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P501 - Dispose of contents and container in accordance with applicable regulations.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Petroleum distillates, hydrotreated light	64742-47-8	60-100
D-Limonene	5989-27-5	15-40

## 4. FIRST AID MEASURES

<b>General advice</b>	Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.
<b>Inhalation</b>	Move to fresh air. In case of shortness of breath, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
<b>Notes to physician</b>	May cause sensitization of susceptible persons.

## 5. FIRE-FIGHTING MEASURES

<b>Flash Point</b>	141 °F / 61 °C	<b>Method</b>	Closed cup
<b>Flammability Limits in Air % Solvent mixture.</b>		<b>Upper</b>	7.0
		<b>Lower</b>	0.6
<b>Suitable Extinguishing Media</b>	Foam. Water spray. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
<b>Specific hazards arising from the chemical</b>	Combustible Liquid. Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions.		
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.		
<b>NFPA</b>	<b>Health</b> 2	<b>Flammability</b> 2	<b>Instability</b> 0
<b>HMIS</b>	<b>Health</b> 2	<b>Flammability</b> 2	<b>Instability</b> 0

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. Material can create slippery conditions.
<b>Environmental Precautions</b>	Do not flush into surface water or sanitary sewer system.
<b>Methods for Containment</b>	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
<b>Methods for Cleaning Up</b>	Use clean non-sparking tools to collect absorbed material. Pick up and transfer to properly labeled containers.
<b>Neutralizing Agent</b>	Not applicable.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.			
<b>Storage</b>	Keep away from heat and sources of ignition. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.			
<b>Storage Temperature</b>	<b>Minimum</b>	35 °F / 2 °C	<b>Maximum</b>	120 °F / 49 °C
<b>Storage Conditions</b>	<b>Indoor</b>	X	<b>Outdoor</b>	<b>Heated</b> <b>Refrigerated</b>

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	ACGIH TLV	OSHA PEL	NIOSH
Petroleum distillates, hydrotreated light	5 mg/m <sup>3</sup> as oil mist	10 mg/m <sup>3</sup> as oil mist	No data available
D-Limonene	No data available	No data available	No data available

<b>Engineering Measures</b>	Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
<b>Personal Protective Equipment</b>	
<b>Eye/Face Protection</b>	Safety glasses with side-shields.

<b>Skin Protection</b>	Wear suitable protective clothing, Impervious gloves.
<b>Respiratory Protection</b>	In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>General Hygiene Considerations</b>	Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid	<b>Viscosity</b>	Non viscous
<b>Color</b>	Colorless	<b>Odor</b>	Citrus
<b>Odor Threshold</b>	Not applicable	<b>Appearance</b>	Transparent
<b>pH</b>	No data available	<b>Specific Gravity</b>	0.82
<b>Evaporation Rate</b>	0.03 (Butyl acetate=1)	<b>Percent Volatile (Volume)</b>	100
<b>VOC Content (%)</b>	100	<b>VOC Photoreactive (Y/N)</b>	Yes
<b>VOC Content (g/L)</b>	819	<b>Vapor Pressure</b>	0.51 mmHg @ 70°F
<b>Vapor Density</b>	4.9 (Air = 1.0)	<b>Solubility</b>	Negligible
<b>n-Octanol/Water Partition</b>	No data available	<b>Melting Point/Range</b>	
<b>Decomposition Temperature</b>	No data available	<b>Boiling Point/Range</b>	424 °F / 218 °C
<b>Flammability (solid, gas)</b>	No data available	<b>Method</b>	Closed cup
<b>Flash Point</b>	141 °F / 61 °C	<b>Upper 7.0 Lower 0.6</b>	
<b>Autoignition Temperature</b>	No information available.		
<b>Flammability Limits in Air %</b>	Solvent mixture.		

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable. Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	None known
<b>Incompatible Products</b>	Strong oxidizing agents, Strong acids and strong bases, Halogenated hydrocarbon, Vinyl compounds, Fluorinated hydrocarbons.
<b>Hazardous Decomposition Products</b>	Carbon oxides
<b>Possibility of Hazardous Reactions</b>	None under normal processing

## 11. TOXICOLOGICAL INFORMATION

### Product Information

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

<b>Oral LD50</b>	4,802.38
<b>Dermal LD50</b>	2,002.37
<b>Inhalation LC50</b>	
<b>Gas</b>	No information available
<b>Mist</b>	5.21
<b>Vapor</b>	5.21

**Principle Route of Exposure** Skin contact, Eye contact, Inhalation.

**Primary Routes of Entry** Inhalation, Skin Absorption.

### Acute Effects

**Eyes** Causes eye irritation.

**Skin** Causes skin irritation. May cause allergic skin reaction.

**Inhalation** Irritating to respiratory system. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. May cause allergic respiratory reaction.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.

### Chronic Toxicity

**Target Organ Effects** May cause sensitization of susceptible persons. Liver and kidney injuries may occur.

**Aggravated Medical Conditions** Respiratory system, Immune system, Liver, Kidney, Central nervous system, Skin.

**Component Information** Skin disorders, Respiratory disorders, Neurological disorders, Liver disorders, Kidney disorders.

### Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Petroleum distillates, hydrotreated light	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 5.2 mg/L ( Rat ) 4 h	no data available	no data available
D-Limonene	= 4400 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	no data available	no data available	no data available

### Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Petroleum distillates, hydrotreated light	no data available	no data available	no data available	no data available	respiratory system, liver, kidney, CNS
D-Limonene	no data available	Skin sensitization,	no data available	no data available	CNS, immune system,

	Respiratory sensitization		lungs, liver, kidneys
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**Carcinogenicity** There are no known carcinogenic chemicals in this product.

Component	ACGIH	IARC	NTP	OSHA	Other
Petroleum distillates, hydrotreated light	not applicable	not applicable	not applicable	not applicable	not applicable
D-Limonene	not applicable	not applicable	not applicable	not applicable	not applicable

## 12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Petroleum distillates, hydrotreated light	no data available	LC50 = 45 mg/L Pimephales promelas 96 h LC50 = 2.2 mg/L Lepomis macrochirus 96 h LC50 = 2.4 mg/L Oncorhynchus mykiss 96 h	no data available	LC50= 4720 mg/L 96 h	N/A
D-Limonene	no data available	LC50 0.619 - 0.796 mg/L Pimephales promelas 96 h LC50 = 35 mg/L Oncorhynchus mykiss 96 h	no data available	no data available	N/A

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

**Mobility** No information available.

## 13. DISPOSAL CONSIDERATIONS

**Product Disposal** Dispose of in accordance with local regulations.

**Container Disposal** Empty containers should be taken for local recycling, recovery, or waste disposal.

## 14. TRANSPORT INFORMATION

DOT

**Proper Shipping Name** <119 Gals; NOT REGULATED >119 gals; Combustible Liquid, N.O.S.,(Aliphatic petroleum distillates, d'limonene)  
**Hazard Class** 3  
**UN-No** NA1993  
**Packing Group** III  
**Description** NA1993, Combustible Liquid, N.O.S.,(Aliphatic petroleum distillates, d'limonene),3,III

TDG

**Hazard Class** 3  
**UN-No** NA1993  
**Packing Group** III

ICAO

Not regulated

IATA

Not regulated

IMDG/IMO

Not regulated

## 15. REGULATORY INFORMATION

**Inventories**

**TSCA** Complies

**DSL** Complies

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazardous Categorization**

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of	Reactive Hazard
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Yes	Yes	Yes	Pressure Hazard No	No
<b>CERCLA</b>				
<b>Component</b>		<b>Hazardous Substances RQs</b>		<b>CERCLA EHS RQs</b>
Petroleum distillates, hydrotreated light		Not applicable		Not applicable
D-Limonene		Not applicable		Not applicable

#### 16. OTHER INFORMATION

**Prepared By** Angela Hutson  
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**Reason for Revision** No information available.  
**Glossary** No information available.  
**List of References.** No information available.

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