



# Material Safety Data Sheet

## Dizolve Ultra Laundry Detergent Strips

### 1. Product and company identification

<b>Product name</b>	: Dizolve Ultra Laundry Detergent Strips
<b>Material uses</b>	: To clean laundry in a household laundry washer.
<b>Part number</b>	: D021008-A01, D021009-A01, D021010-A01
<b>Supplier/Manufacturer</b>	: Dizolve Group Corporation 290 Baig Blvd. Suite B10 Moncton, New Brunswick Canada E1E1C8 Tel: +1 506-860-6561 Toll-free: 1-855-201-1920 Fax: +1-506-860-3395 Web site: <a href="http://mydizolve.com">http://mydizolve.com</a>
<b>MSDS authored by</b>	: KMK Regulatory Services Inc.
<b><u>In case of emergency</u></b>	: 1-877-249-6846 8-5pm Atlantic Time
<b>Product type</b>	: Solid. <b>This product when in use cannot release any of the chemical listed in Section 3. Therefore it is considered non-hazardous under all applicable legislation.</b>

### 2. Hazards identification

#### Emergency overview

<b>Physical state</b>	: Solid. [Semi-crystalline.]
<b>Color</b>	: D021008-A01: White. D021009-A01: White. D021010-A01: Violet.
<b>Odor</b>	: D021008-A01: Unscented. D021009-A01: Fresh Linen (Rose). D021010-A01: Lavender.
<b>Hazard statements</b>	: NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
<b>OSHA/HCS status</b>	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
<b>Routes of entry</b>	: Dermal contact. Eye contact. Inhalation. Ingestion.
<b><u>Potential acute health effects</u></b>	
<b>Inhalation</b>	: No known significant effects or critical hazards.
<b>Ingestion</b>	: No known significant effects or critical hazards.
<b>Skin</b>	: No known significant effects or critical hazards.
<b>Eyes</b>	: No known significant effects or critical hazards.

#### Potential chronic health effects

## 2. Hazards identification

- Chronic effects** : No known significant effects or critical hazards.  
**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.  
**Target organs** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

- Inhalation** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.  
**Skin** : No known significant effects or critical hazards.  
**Eyes** : No known significant effects or critical hazards.  
**Medical conditions aggravated by over-exposure** : None known.

See toxicological information (Section 11)

## 3. Composition/information on ingredients

### United States

Name	CAS number	%
Starch	9005-25-8	30 - 60
Glycerin	56-81-5	10 - 30
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	68439-57-6	5 - 10
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., inner salts	61789-40-0	1 - 5
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9	1 - 5

### Canada

Name	CAS number	%
Starch	9005-25-8	30 - 60
Glycerin	56-81-5	10 - 30
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	68439-57-6	5 - 10
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., inner salts	61789-40-0	1 - 5
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9	1 - 5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. First aid measures

- Eye contact** : Flush with water. Get medical attention if symptoms occur.  
**Skin contact** : Not applicable.  
**Inhalation** : Not applicable.  
**Ingestion** : Not applicable.  
**Protection of first-aiders** : No special protection is required.  
**Notes to physician** : No specific treatment.

## 5. Fire-fighting measures

**Flammability of the product** : Non-flammable.

**Extinguishing media**

**Suitable** : Use an extinguishing agent suitable for the surrounding fire.

**Not suitable** : None known.

**Special exposure hazards** : No specific fire or explosion hazard.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
metal oxide/oxides

**Special protective equipment for fire-fighters** : No special protection is required.

## 6. Accidental release measures

**Personal precautions** : Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** : No special precaution is required.

**Methods for cleaning up**

**Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

## 7. Handling and storage

**Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

**Storage** : Store in accordance with local regulations.

## 8. Exposure controls/personal protection

**United States**

Ingredient	Exposure limits
Starch	<b>NIOSH REL (United States, 6/2009).</b> TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Respirable fraction TWA: 10 mg/m <sup>3</sup> 10 hours. Form: Total <b>OSHA PEL (United States, 6/2010).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust <b>ACGIH TLV (United States, 3/2012).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
Glycerin	<b>ACGIH TLV (United States, 3/2012).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Mist <b>OSHA PEL (United States, 6/2010).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust

**Canada**

## 8. Exposure controls/personal protection

<u>Occupational exposure limits</u>		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	Notations
Starch	US ACGIH 3/2012	-	10	-	-	-	-	-	-	-	
	AB 4/2009	-	10	-	-	-	-	-	-	-	
	BC 4/2012	-	3	-	-	-	-	-	-	-	[a]
Glycerin	ON 7/2010	-	10	-	-	-	-	-	-	-	[b]
	QC 9/2011	-	10	-	-	-	-	-	-	-	[b]
	US ACGIH 3/2012	-	10	-	-	-	-	-	-	-	[b]
	AB 4/2009	-	10	-	-	-	-	-	-	-	[c] [c]
	BC 4/2012	-	10	-	-	-	-	-	-	-	[c]
	ON 7/2010	-	3	-	-	-	-	-	-	-	[d]
	QC 9/2011	-	10	-	-	-	-	-	-	-	[e]

[3]Skin sensitization

**Form:** [a]Respirable dust [b]Total dust [c]Mist [d]Respirable mist [e]Inhalable fraction.

Consult local authorities for acceptable exposure limits.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Engineering measures** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protection

**Respiratory** : None required.

**Hands** : Not required under normal conditions of use.

**Eyes** : Not required under normal conditions of use.

**Skin** : None required.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## 9. Physical and chemical properties

**Physical state** : Solid. [Semi-crystalline.]

**Flash point** : Not available.

**Burning time** : Not available.

**Burning rate** : Not available.

**Auto-ignition temperature** : Not available.

**Flammable limits** : Not available.

**Color** : D021008-A01: White.  
D021009-A01: White.  
D021010-A01: Violet.

**Odor** : D021008-A01: Unscented.  
D021009-A01: Fresh Linen (Rose).  
D021010-A01: Lavender.

**Taste** : Not available.

**Molecular weight** : Not applicable.

## 9. Physical and chemical properties

<b>Molecular formula</b>	: Not applicable.
<b>pH</b>	: 6 to 8
<b>Boiling/condensation point</b>	: Not available.
<b>Melting/freezing point</b>	: Not available.
<b>Critical temperature</b>	: Not available.
<b>Relative density</b>	: Not available.
<b>Vapor pressure</b>	: Not available.
<b>Vapor density</b>	: Not available.
<b>Volatility</b>	: Not available.
<b>Odor threshold</b>	: Not available.
<b>Evaporation rate</b>	: Not available.
<b>SADT</b>	: Not available.
<b>Viscosity</b>	: Not available.
<b>Ionicity (in water)</b>	: Not available.
<b>Dispersibility properties</b>	: Not available.
<b>Solubility</b>	: Soluble in water.
<b>Partition coefficient (LogKow)</b>	: Not available.
<b>Physical/chemical properties comments</b>	: Not available.

## 10. Stability and reactivity

<b>Chemical stability</b>	: The product is stable. Dissolves in water and water solutions, biodegrades in landfills in 28 days.
<b>Conditions to avoid</b>	: No specific data.
<b>Incompatible materials</b>	: Reactive or incompatible with the following materials: oxidizing materials. Non-reactive or compatible with the following materials: reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.

## 11. Toxicological information

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	LD50 Oral	Rat	>5000 mg/kg	-
Glycerin	LD50 Oral	Rat	12600 mg/kg	-

### Chronic toxicity

There is no data available.

### Irritation/Corrosion

## 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., inner salts Starch	Eyes - Severe irritant	Rabbit	-	24 hours 100 µL	-
	Skin - Mild irritant	Human	-	72 hours 300 µg Intermittent	-
Glycerin	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

### Sensitizer

**Skin** : There is no data available.

**Respiratory** : There is no data available.

### Carcinogenicity

#### Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Starch	A4	-	-	-	-	-

### Mutagenicity

There is no data available.

### Teratogenicity

There is no data available.

### Reproductive toxicity

There is no data available.

## 12. Ecological information

**Ecotoxicity** : No known significant effects or critical hazards.

### Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	Acute EC50 >100 mg/L	Fish	96 hours
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Acute EC50 4.53 mg/L Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours

### Persistence/degradability

There is no data available.

## 13. Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. This material and its container must be disposed of in a safe way.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
<b>DOT Classification</b>	Not regulated.	-	-	-		-
<b>TDG Classification</b>	Not regulated.	-	-	-		-
<b>IMDG Class</b>	Not regulated.	-	-	-		-
<b>IATA-DGR Class</b>	Not regulated.	-	-	-		-

PG\* : Packing group

Exemption to the above classification may apply.

**AERG** : Not applicable.

## 15. Regulatory information

### United States

**HCS Classification** : Not regulated.

**U.S. Federal regulations** : **TSCA 8(a) PAIR**: Methyl acetate  
**TSCA 8(a) CDR Exempt/Partial exemption**: Not determined  
**United States inventory (TSCA 8b)**: Not determined.

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : Immediate (acute) health hazard

#### Composition/information on ingredients

## 15. Regulatory information

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Glycerin	10 - 30	No.	No.	No.	Yes.	No.
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	5 - 10	No.	No.	No.	Yes.	No.
1-Propanaminium, 3-amino-N-(carboxymethyl)-N, N-dimethyl-, N-coco acyl derivs., inner salts	1 - 5	No.	No.	No.	Yes.	No.
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	1 - 5	No.	No.	No.	Yes.	No.
Lauryldimethylamine oxide	0.1 - 1	No.	No.	No.	Yes.	No.

### State regulations

- Massachusetts** : The following components are listed: Starch; Glycerin
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: Glycerin
- Pennsylvania** : The following components are listed: Starch; Glycerin
- California Prop. 65**

No products were found.

### Canada

- WHMIS (Canada)** : Not controlled under WHMIS (Canada).
- Canadian lists**
- Canadian NPRI** : None of the components are listed.
- CEPA Toxic substances** : None of the components are listed.
- Canada inventory** : All components are listed or exempted.

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.

## 16. Other information

**Label requirements** : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

**Hazardous Material Information System (U.S.A.)** : **Health** : 0 **Flammability** : 0 **Physical hazards** : 0

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The customer is responsible for determining the PPE code for this material.

**National Fire Protection Association (U.S.A.)** : **Health** : 0 **Flammability** : 0 **Instability** : 0

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### History



## 16. Other information

**Date of issue mm/dd/yyyy** : 08/15/2013  
**Version** : 1  
**Revised Section(s)** : Not applicable.

Notice to reader

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