



# MATERIAL SAFETY DATA SHEET

Revision date: 02/20/2012

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** ProClean Sugar Residue Digestant

**Contact Manufacturer** Duracable Manufacturing Company  
300 Ashworth Road  
West Des Moines, IA 50265  
[www.duracable.com](http://www.duracable.com)

**Information Telephone Number** (515) 223-1344

**Emergency Telephone Number** (515) 223-1344  
1-800-424-9300 (Chemtrec) 24 hours every day

1	Health
0	Flammability
0	Reactivity
X	Protective Equipment

## 2. HAZARDS IDENTIFICATION

<b>Emergency Overview</b>		
Contact may cause eye and skin irritation		
Appearance Blue	Physical State Liquid	Odor Pine

### Potential Health Effects

**Principle Routes of Exposure**      Eye contact, Skin contact, Ingestion

#### **Acute Effects**

Eyes	May cause slight irritation
Skin	Substance may cause slight skin irritation
Inhalation	May cause irritation of respiratory tract
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea

### Chronic Effects

**Chronic Toxicity**      No information available

See Section 11 for additional Toxicological information.

**Aggravated Medical Conditions**      No information available

**Potential Environmental Effects**      There is no known ecological information for this product  
See Section 12 for additional Ecological information

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### **Hazardous Components**

Chemical Name	CAS-No	Weight %
Water	7732-18-5	90-95%
Viable Bacteria Cultures	Not Applicable	1-5%
Cellulase	9012-54-8	< 1%
EDTA	64-02-8	<0.5%

**Ingredients not listed are either non-hazardous or under reportable concentrations**

## 4. FIRST AID MEASURES

<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water
<b>Inhalation</b>	Move to fresh air
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water
<b>Notes to Physician</b>	Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Not considered flammable
<b>Suitable Extinguishing Media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
<b>Unsuitable Extinguishing Media</b>	None
<b>Hazardous Combustion Products</b>	None
<b>Specific Hazards Arising from the Chemical</b>	May cause allergic respiratory reaction
<b>Protective Equipment and Precautions for Firefighters</b>	Self-contained breathing apparatus and standard turn-out apparel

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	For personal protection see section 8
<b>Environmental Precautions</b>	None known
<b>Methods for cleaning up</b>	Avoid formation of dust and aerosols Spilled preparation should be removed immediately to avoid formation of dust from dried preparation. Take up by mechanical means preferably by a vacuum cleaner equipped with a HEPA (High Efficiency Particulate Air) filter. Flush remainder carefully with plenty of water. Avoid splashing, high pressure washing or compressed air cleaning to avoid formation of aerosols. Ensure sufficient ventilation. Wash contaminated clothing.

For personal protection see section 8

## 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid formation of dust and aerosols  Ensure adequate ventilation
<b>General Precautions</b>	The Substance should be handled under conditions of good industrial hygiene and in conformity with any local regulations in order to avoid unnecessary exposure.
<b>Storage</b>	Keep tightly closed in a dry and cool place.
<b>Storage Conditions</b>	In unbroken packaging - dry and protect from the sun. The product has been formulated for optimal stability. Extended storage or adverse conditions such as higher temperatures or higher humidity may lead to a higher dosage requirement.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational exposure controls

<b>Engineering Controls</b>	Ensure adequate ventilation, especially in confined areas Maintain good conditions of industrial hygiene. Some processes may require enclosures, local exhaust ventilation, or other engineering controls to control airborne levels. Additional handling and healthy/safety information is available upon request
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### Personal Protective Equipment

<b>Respiratory Protection</b>	In case of insufficient ventilation wear suitable respiratory equipment that meets HEPA/P100 specifications
<b>Eye Protection</b>	Safety glasses with side-shields
<b>Skin Protection</b>	Long sleeved clothing
<b>Hand Protection</b>	Protective gloves
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practices
<b>Environmental exposure controls</b>	Local authorities should be advised if significant spillages cannot be contained

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Blue
Physical State	Liquid
Odor	Pine
pH	4.7-6.0
Boiling Point/Range	No information available
Melting Point/Range	No information available
Flash Point	No information available
Flammability (solid, gas)	No information available
Explosive Properties	No information available
Oxidizing Properties	No information available
Vapor Pressure	No information available
Relative density	No data available
Solubility	Readily soluble
Partition Coefficient (n-octanol/water)	No information available

The physical data presented above are typical values and should not be construed as a specification

## 10. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions
Conditions to Avoid	Excessive temperature variations below 32F or above 155F
Materials to avoid	Strong acids or alkali compounds, as well as oxidizing agents may inactivate biological cultures.
Hazardous Decomposition Products	No information available
Possibility of Hazardous Reactions	None under normal processing

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Ingestion, LD50 Rat Oral (mg/kg):	Not Determined
Inhalation, LC50 Rat inhalation (mg/l/4hr)	Not Determined
Skin, LD50 Rat Dermal (mg/kg)	Not Determined
Eye Irritation	Not Determined

### Chronic Toxicity

Sensitization	According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified
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This product is formulated using a range of microorganisms specially selected from the natural environment

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

This product is not expected to pose an environmental hazard. No Toxicity Data is available specifically for soil organisms, plants and terrestrial animals.

<b>Environmental Effects</b>	The data available do not support any environmental hazard
<b>Persistence/Degradability</b>	The organic components of the product are biodegradable
<b>Bioaccumulative Potential</b>	According to experience not expected
<b>Mobility</b>	Not available
<b>Other adverse effects</b>	No information available

## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Method</b>	Dispose of in accordance with local regulations
<b>Contaminated Packaging</b>	Dispose of wastes in an approved waste disposal facility

## 14. TRANSPORT INFORMATION

<b>Transport Regulations</b>	No dangerous goods according to transport regulations
<b>IMDG/IMO</b>	Not regulated
<b>RID</b>	Not regulated
<b>ADR</b>	Not regulated
<b>ICAO</b>	Not regulated
<b>IATA</b>	Not regulated
<b>DOT</b>	Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

TSCA	Complies
PICCS	Does not Comply
KECL	Complies
ENCS	Does not Comply
CHINA	Complies
AICS	Complies
DSL/NDSL	Complies

### USA, 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 40 CFR Part 372.

#### **SARA 311/312 Hazardous Categorization**

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

### USA, State Regulations

**California Proposition 65** This product does not contain any Proposition 65 chemicals

### Canada

**WHMIS Hazard Class** Controlled product hazard class D2 A (respiratory sensitizer)

**WHMIS Statement** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

## 16. OTHER INFORMATION

### Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. Furthermore, as the conditions of use are beyond the control of Duracable Manufacturing Company, it is the responsibility of the customer to determine the conditions of safe use of these products.

### Report version

1 / ANSI / English

**End of Material Safety Data Sheet**