## SAFETY DATA SHEET

Product Name ENDUROSHIELD HOME GLASS (US)

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name PCT GLOBAL LLC

Address PO Box 20274, Santa Barbara, California, CA, 93120, UNITED STATES

**Telephone** +1 805 617 4609 **Emergency** +1 800 424 9300

Email <u>salesusa@enduroshield.com</u>

Synonym(s) GLASS COATING
Use(s) GLASS COATING
SDS Date 17 April 2013

## 2. HAZARDS IDENTIFICATION

## **Emergency Overview**

#### **RISK PHRASES**

R11 Highly flammable.
R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.

#### **SAFETY PHRASES**

S7 Keep container tightly closed.

S16 Keep away from sources of ignition - No smoking.

S24/25 Avoid contact with skin and eyes.

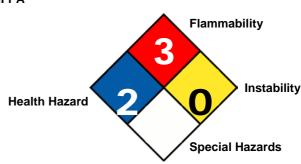
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

## Refer to Toxicological Information: Section 11

**HMIS** 

Health		2
Flammability		3
Physical Hazard		0
Personal Protection		

## NFPA



## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Identification	Classification	Content
ISOPROPYL ALCOHOL	CAS: 67-63-0 EC: 200-661-7	F;R11 Xi;R36 Xn;R67	>60%
PROPRIETARY INGREDIENT(S)	Not Available	Not Available	<10%

## 4. FIRST AID MEASURES

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until

advised to stop by a Poisons Information Centre, a physician, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running

water. Continue flushing with water until advised to stop by a Poisons Information Centre or a

physician.



Page 1 of 7 SDS Date: 17 Apr 2013

Ingestion For advice, contact the Poison Control Centre at 1-800-222-1222 or a physician (at once). If

swallowed, do not induce vomiting.

Advice to Physician Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

Flammability Highly flammable. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to

decomposition. Vapor may form explosive mixtures with air. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, heaters, naked lights, pilot lights, mobile

phones etc. when handling. Earth containers when dispensing fluids.

Fire and Explosion Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation.

Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers

and nearby storage areas.

**Extinguishing** Dry agent, carbon dioxide, foam or water fog. Prevent contamination of drains or waterways.

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Wear Personal Protective Equipment (PPE) as detailed in Section 8 of this SDS. Clear area of all

unprotected personnel. Ventilate area where possible. Contact emergency services where

appropriate.

**Environmental Precautions** Prevent product from entering drains and waterways.

Methods of Cleaning Up Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite,

sand, or similar), collect and place in suitable containers for disposal.

**References** See Sections 8 and 13 for exposure controls and disposal.

## 7. STORAGE AND HANDLING

Storage Store in a cool, dry, well ventilated area, removed from oxidising agents, active metals, heat or

ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should be bunded and have appropriate

ventilation systems.

**Handling** Before use carefully read the product label. Use of safe work practices are recommended to avoid

eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before

eating. Prohibit eating, drinking and smoking in contaminated areas.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## **Exposure Standards**

Ingredient	Reference	TWA		STEL	
	Reference	ppm	mg/m³	ppm	mg/m³
2-Propanol	ACGIH TLV (US)	200			
2-Propanol	OSHA PEL (US)	400			

Biological Limits No biological limit allocated.

Engineering Controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion

proof extraction ventilation is recommended. Flammable/explosive vapors may accumulate in poorly ventilated areas. Vapors are heavier than air and may travel some distance to an ignition source and

flash back. Maintain vapor levels below the recommended exposure standard.

ChemAlert.

Page 2 of 7 SDS Date: 17 Apr 2013

PPF

Eye / Face Wear splash-proof goggles.

Hands Wear nitrile or neoprene gloves.

**Body** When using large quantities or where heavy contamination is likely, wear coveralls.

**Respiratory** Where an inhalation risk exists, wear a Type A (Organic vapour) respirator. If spraying, wear a Type

A-Class P1 (Organic gases/vapours and Particulate) respirator.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance CLEAR TO LIGHT YELLOW LIQUID Odor ALCOHOL-LIKE ODOR HIGHLY

FlammabilityFLAMMABLEFlash point53.6°F (cc)Boiling point180.5°F

Melting point NOT AVAILABLE
Evaporation rate 2.9 (n-Butyl acetate = 1)

pH NOT AVAILABLE
Vapor density 2.07 (Air = 1)
Specific gravity 0.78505
Solubility (water) SOLUBLE
Vapor pressure 4.4 kPa @ 68°F

Upper explosion limit12 %Lower explosion limit2 %Autoignition temperature750.2°F

 Decomposition temperature
 NOT AVAILABLE

 Viscosity
 NOT AVAILABLE

 Partition coefficient
 NOT AVAILABLE

% Volatiles 98 %

## 10. STABILITY AND REACTIVITY

Chemical Stability Stable under recommended conditions of storage.

**Conditions to Avoid** Avoid heat, sparks, open flames and other ignition sources.

Material to Avoid Incompatible with oxidising agents (eg. hypochlorites), acids (eg. nitric acid), metals, heat and

ignition sources.

**Hazardous Decomposition** 

**Products** 

May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.

Hazardous Reactions Polymerization is not expected to occur.

## 11. TOXICOLOGICAL INFORMATION

Health Hazard Harmful - irritant. This product has the potential to cause adverse health effects with over exposure.

Summary Use safe work practices to avoid eye or skin contact and inhalation. Chronic exposure may result in

central nervous system (CNS), liver and kidney damage.

Eye Irritant. Contact may result in irritation, lacrimation, pain and redness. May result in burns with

prolonged contact.

**Inhalation** Irritant. Over exposure may result in irritation of the nose and throat, coughing and headache. High

level exposure may result in nausea, dizziness and drowsiness.

Skin Low to moderate irritant. Prolonged or repeated contact may result in irritation, rash and dermatitis.

**Ingestion** Low to moderate toxicity. Ingestion may result in gastrointestinal irritation, nausea, vomiting,

dizziness and drowsiness. Aspiration may result in chemical pneumonitis and pulmonary oedema.

Toxicity Data ISOPROPYL ALCOHOL (67-63-0)



Page 3 of 7 SDS Date: 17 Apr 2013

ISOPROPYL ALCOHOL (67-63-0)

LC50 (inhalation) 16000 ppm/8 hours 16000/8 hours (rat)

LCLo (inhalation) 12000 ppm/8 hours (mouse)

LD50 (ingestion) 3600 mg/kg (mouse) LD50 (intraperitoneal) 667 mg/kg (rabbit) LD50 (intravenous) 1088 mg/kg (rat) LD50 (skin) 12,800 mg/kg (rabbit) LDLo (ingestion) 3570 mg/kg (human) LDLo (intravenous) 1024 mg/kg (dog) LDLo (subcutaneous) 6000 mg/kg (mouse) TDLo (ingestion) 13 mg/kg (infant)

## 12. ECOLOGICAL INFORMATION

Environment Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure

appropriate measures are taken to prevent this product from entering the environment.

**Ecotoxicity** Not expected to be dangerous to the aquatic environment.

**Persistence/Degradability** This product is readily biodegradable.

**Mobility** Relatively volatile and would therefore readily evaporate from dry soil and surfaces.

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal Disposal requirements are dependent on the hazard classification of the waste produced, as defined

under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. The disposal of this material must be conducted in compliance with the relevant parts of 40 CFR 261. Check state and local regulation for any additional requirements, as these may be more restrictive than federal laws

and regulation.

**Legislation** Dispose of in accordance with relevant local legislation.

## 14. TRANSPORT INFORMATION

## **REGULATED FOR TRANSPORT**



LAND TRANSPORT SEA TRANSPORT AIR TRANSPORT (DOT) (IMDG / IMO) (IATA / ICAO)

**UN Number** 1219 1219 1219

Proper Shipping Name ISOPROPANOL (ISOPROPYL ALCOHOL)

DG Class/ Division 3 3

Subsidiary Risk(s) None Allocated None Allocated None Allocated

Packing Group || || || ||

Hazchem Code \*2YE EMS F-E, S-D

## 15. REGULATORY INFORMATION

#### **US EPCRA and CAA Regulatory Information**

The following components are subject to the Emergency Planning and Community Right-to-Know Act (EPCRA) and Section 112(r) of the Clean Air Act (CAA):



Page 4 of 7 SDS Date: 17 Apr 2013

Ingredient	CAS Number	Sara 302 (TPQ)	Sara 304 (RQ)	CERCLA (RQ)	Sara 313	RCRA Code	CAA (TQ)
ISOPROPYL ALCOHOL	67-63-0				313		

<sup>\*</sup> Refer to Section 16 - Summary of Codes

#### Carcinogenicity

The following components are reported to be carcinogenic:

Ingredient	CAS Number	NTP	IARC	OSHA
ISOPROPYL ALCOHOL	67-63-0		Group 3	

#### **Inventory Listing(s)**

**AUSTRALIA: AICS (Australian Inventory of Chemical Substances)** 

All components are listed on AICS, or are exempt.

**UNITED STATES: TSCA (US Toxic Substances Control Act)** All components are listed on the TSCA inventory, or are exempt.

## 16. OTHER INFORMATION

#### **Additional Information**

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

WORK PRACTICES - SOLVENTS: Organic solvents may present both a health and flammability hazard. It is recommended that engineering controls should be adopted to reduce exposure where practicable (for example, if using indoors, ensure explosion proof extraction ventilation is available). Flammable or combustible liquids with explosive limits have the potential for ignition from static discharge. Refer to AS 1020 (The control of undesirable static electricity) and AS 1940 (The storage and handling of flammable and combustible liquids) for control procedures.

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGE (TWA) or WES (WORKPLACE EXPOSURE STANDARD) (NZ): Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

#### PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

## HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.



Page 5 of 7 17 Apr 2013

SDS Date:

Abbreviations ACGIH American Conference of Governmental Industrial Hygienists

CAA Clean Air Act

CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CNS Central Nervous System

EC No. EC No - European Community Number

EPCRA Emergency Planning and Community Right-to-Know Act

GHS Globally Harmonized System

IARC International Agency for Research on Cancer LD50 Lethal Dose, 50% / Median Lethal Dose

mg/m³ Milligrams per Cubic Metre
NTP U.S. National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly

alkaline).

ppm Parts Per Million

RCRA Resource Conservation and Recovery Act

REACH Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals

RQ Reportable Quantity measured in pounds (304, CERCLA)
SARA Superfund Amendments and Reauthorization Act
STOT-RE Specific target organ toxicity (repeated exposure)

STOT-RE Specific target organ toxicity (repeated exposure)
STOT-SE Specific target organ toxicity (single exposure)

TLV Threshold Limit Value

TPQ Threshold Planning Quantity measured in pounds (302)

TQ Threshold Quantity measured in pounds (CAA)

TWA/OEL Time Weighted Average or Occupational Exposure Limit

#### **Summary Of Codes**

RQ - Reportable Quantity measured in pounds (304, CERCLA)

TQ - Threshold Quantity measured in pounds (CAA)

TPQ - Threshold Planning Quantity measured in pounds (302)

- ^ Reporting threshold has changed since November 1998.
- + Member of PAC category.
- # Member of diisocyanate category.
- X Indicates that this is a second name for a chemical already included on this consolidated list. May also indicate that the same chemical with the same CAS number appears on another list with a different chemical name.
- \* RCRA carbamate waste: statutory one-pound RQ applies until RQs are adjusted.
- \*\* This chemical was identified from a Premanufacture Review Notice (PMN) submitted to EPA. The submitter has claimed certain information on the submission to be confidential, including specific chemical identity.
- \*\*\* Indicates that no RQ is assigned to this generic or broad class, although the class is a CERCLA hazardous substance. See 50 Federal Register 13456 (April 4, 1985). Values in Section 313 column represent Category Codes for reporting under Section 313.
- c Although not listed by name and CAS number, this chemical is reportable under one or more of the EPCRA section 313 chemical categories.
- s Indicates that this chemical is currently under a administrative stay of the EPCRA section 313 reporting requirements, therefore, no Toxics Release Inventory reports are required until the stay is removed.
- ! Member of the dioxin and dioxin-like compounds category.

#### **Revision History**

Revision	Description
1.0	Initial SDS Creation
0.3	Standard SDS Review



SDS Date: 17 Apr 2013

#### **Report Status**

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

#### **Prepared By**

Risk Management Technologies 5 Ventnor Ave, West Perth Western Australia 6005 Phone: +61 8 9322 1711 Fax: +61 8 9322 1794

Email: info@rmt.com.au Web: www.rmt.com.au

Prepared in accordance to OSHA Hazard Communication standard, 29 CFR 1920.1200.

Revision: 1

**SDS Date:** 17 April 2013

**End of SDS** 



Page 7 of 7

SDS Date: 17 Apr 2013

# **Material Safety Data Sheet**

**ENDUROCLEAN (US) Product Name** 

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Supplier Name PCT GLOBAL LLC** 

**Address** PO Box 20274, Santa Barbara, California, CA, 93120, UNITED STATES

+ 1 805 617 4609 **Telephone** + 1 805 965 2281 Fax **Emergency** + 1 800 424 9300 Synonym(s) **ENDURO CLEAN** 

CERAMIC CLEANER • CLEANING AGENT • GLASS CLEANER • TILE CLEANER Use(s)

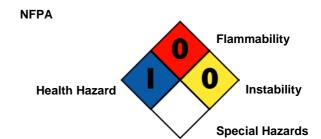
**MSDS Date** 23 Oct 2012

#### 2. HAZARDS IDENTIFICATION

Refer to Toxicological Information: Section 11

**HMIS** 





## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Content
ETHANOL	64-17-5	6-8%
AMMONIA	7664-41-7	<0.2%
WATER	7732-18-5	92%
1,2-PROPANEDIOL, MONOMETHYL ETHER	107-98-2	0.95%
SURFACTANT(S)	Not Available	<0.2%

## 4. FIRST AID MEASURES

Eye If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to

stop by the Poisons Information Centre or a physician, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue

flushing with water until advised to stop by the Poisons Information Centre or a physician.

Ingestion For advice, contact the Poison Control Centre at 1-800-222-1222 or a physician (at once). If swallowed, do not

induce vomiting.

**Advice to Doctor** Treat symptomatically

#### 5. FIRE FIGHTING MEASURES

**Flammability** Non flammable. May evolve toxic gases (carbon/ nitrogen oxides, amines, ammonia, hydrocarbons) when heated

to decomposition.

Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, heaters, naked

lights, pilot lights, mobile phones etc. when handling. Earth containers when dispensing fluids.

Fire and Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind **Explosion** and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing

**RMT** 

Reviewed: 23 Oct 2012

Printed: 23 Oct 2012

Product Name ENDUROCLEAN (US)

Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

**Extinguishing** Water fog or foam. Prevent contamination of drains or waterways.

Hazchem Code None Allocated

## 6. ACCIDENTAL RELEASE MEASURES

**Spillage** 

Contact emergency services where appropriate. Use personal protective equipment. Clear area of all unprotected personnel. Ventilate area where possible. Contain spillage, then cover / absorb spill with non-combustible absorbant material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

## 7. STORAGE AND HANDLING

Storage

Store in a cool, dry, well ventilated area, removed from oxidising agents, acids, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should have appropriate ventilation systems.

Handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

#### **Exposure Stds**

Ingredient	D. Commune		TWA		STEL	
	Reference	ppm	mg/m3	ppm	mg/m3	
Ammonia	ACGIH TLV (US)	25		35		
Ethanol	ACGIH TLV (US)	1000				
	OSHA PEL (US)	1000				

Engineering Controls

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Flammable/explosive vapours may accumulate in poorly ventilated areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below the recommended exposure standard.

PPE

Wear splash-proof goggles and neoprene or nitrile gloves. When using large quantities or where heavy contamination is likely, wear: coveralls. Where an inhalation risk exists, wear: a Type A (Organic vapour) respirator. At high vapour levels, wear: an Air-line respirator or self Contained Breathing Apparatus (SCBA).





## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	CLEAR OR SLIGHTLY YELLOW LIQUID	Solubility (Water)	SOLUBLE
Odour	AMMONIACAL ODOUR	Specific Gravity	0.98 (Approximately)
pH	10	% Volatiles	NOT AVAILABLE
Vapour Pressure	18 mm Hg @ 68°F	Flammability	NON FLAMMABLE
Vapour Density	NOT AVAILABLE	Flash Point	NOT RELEVANT
<b>Boiling Point</b>	NOT AVAILABLE	Upper Explosion Limit	NOT RELEVANT
Melting Point	NOT AVAILABLE	Lower Explosion Limit	NOT RELEVANT
Evaporation Pate	A S EOD WATED		

Evaporation Rate AS FOR WATER

## 10. STABILITY AND REACTIVITY

Chemical Stability Stable under recommended conditions of storage.

**Conditions to Avoid** Avoid heat, sparks, open flames and other ignition sources.

Material to Avoid Incompatible with oxidising agents (eg. hypochlorites), acids (eg. nitric acid), heat and ignition sources.

Hazardous May evolve toxic gases (carbon/ nitrogen oxides, amines, ammonia, hydrocarbons) when heated to

Decomposition Products decomposition.

Page 2 of 5 RMT

Reviewed: 23 Oct 2012 Printed: 23 Oct 2012

#### **ENDUROCLEAN (US) Product Name**

**Hazardous Reactions** Hazardous polymerization is not expected to occur.

#### 11. TOXICOLOGICAL INFORMATION

**Health Hazard** Summary

Eye

Low toxicity. Use safe work practices to avoid eye or skin contact and inhalation. Chronic exposure may result in cirrhosis of the liver. Over exposure may result in central nervous system (CNS) depression, with nausea, dizziness and unconsciousness at high levels. Ammonia vapour may result in severe eye and respiratory tract irritation, however due to the low content, such effects are only anticipated in poorly ventilated areas. When used

in small quantities, the potential for over exposure is reduced.

Low to moderate irritant. Contact may result in irritation, lacrimation, pain and redness. Inhalation Irritant. Over exposure may result in irritation of the nose and throat, coughing and headache. High level exposure

may result in nausea, dizziness and drowsiness.

Skin Low irritant. Prolonged or repeated contact may result in mild irritation, rash and dermatitis.

Ingestion Low toxicity. Ingestion may result in gastrointestinal irritation, nausea, vomiting, abdominal pain, diarrhoea,

headache, dizziness and drowsiness with large quantities. Chronic exposure may result in liver damage.

ETHANOL (64-17-5) **Toxicity Data** 

> LC50 (Inhalation): 20000 ppm/10 hours (rat) LCLo (Inhalation): 21900 ppm (guinea pig) LD50 (Ingestion): 3450 mg/kg (mouse) LD50 (Intraperitoneal): 3600 ug/kg (rat) LD50 (Intravenous): 1440 mg/kg (rat) LD50 (Subcutaneous): 8285 mg/kg (mouse) LDLo (Ingestion): 1400 mg/kg (human) LDLo (Intraperitoneal): 3000 mg/kg (dog) LDLo (Intravenous): 1600 mg/kg (dog)

LDLo (Skin): 20 g/kg (rabbit)

LDLo (Subcutaneous): 19440 (infant)

TCLo (Inhalation): 20000ppm/7 hours (1-22 days pregnant rat - reproductive)

TDLo (Ingestion): 50 mg/kg (human)

AMMONIA (7664-41-7)

LC50 (Inhalation): 2000 ppm/4 hours (rat) LCLo (Inhalation): 5000 ppm/5 minutes (human)

LD50 (Ingestion): 350 mg/kg (rat) TCLo (Inhalation): 20 ppm (human) TDLo (Ingestion): 0.015 mL/kg (man) TDLo (Skin): 1000 mg/kg (human)

## 12. ECOLOGICAL INFORMATION

Environment

If spilled on soil, ethanol will either evaporate or leach into the ground due to the relatively high vapour pressure and low adsorption in soil. It will biodegrade, probably to acetic acid and formaldehyde. Ethanol will volatilise from water and biodegrade, and is not expected to bioconcentrate. It will photodegrade in air with a half-life ranging from hours (polluted air) to days (clean air).

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal** 

Disposal requirements are dependent on the hazard classification of the waste produced, as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. The disposal of this material must be conducted in compliance with the relevant parts of 40 CFR 261. Check state and local regulation for any additional requirements, as these may be more restrictive than federal laws and regulation.

Legislation Dispose of in accordance with relevant local legislation.

#### 14. TRANSPORT INFORMATION

**DOT (Domestic Surface Transportation)** 

**DOT Proper Shipping Name** None Allocated

**UN No. Packing DG Class** None Allocated None Allocated Subsidiary Risk(s) None Allocated

Group None Allocated

## 15. REGULATORY INFORMATION

## **US EPCRA and CAA Regulatory Information**

The following components are subject to the Emergency Planning and Community Right-to-Know Act (EPCRA) and Section 112(r) of the Clean Air Act (CAA):

> Page 3 of 5 **RMT**

Reviewed: 23 Oct 2012 Printed: 23 Oct 2012

CHEM ALERT

#### **ENDUROCLEAN (US) Product Name**

Ingredient Name	CAS No	Sara 302 (TPQ)	Sara 304 (RQ)	CERCLA (RQ)	Sara 313	RCRA Code	CAA (TQ)
AMMONIA	7664-41-7	500	100	100	313		

Refer to Section 16 - Summary of Codes

#### Carcinogenicity

The following components are reported to be carcinogenic:

Ingredient Name	CAS No	NTP	IARC	OSHA
ETHANOL	64-17-5		Group 1	

#### **TSCA**

The following components are not listed on the TSCA Inventory List:

All components are listed on the TSCA Inventory List.

## **16. OTHER INFORMATION**

#### Additional Information

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

#### ABBREVIATIONS:

ADB - Air-Dry Basis.

BEI - Biological Exposure Indice(s)

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.

EINECS - European INventory of Existing Commercial chemical Substances.

IARC - International Agency for Research on Cancer.

M - moles per litre, a unit of concentration.

mg/m3 - Milligrams per cubic metre.

NOS - Not Otherwise Specified.

NTP - National Toxicology Program.

OSHA - Occupational Safety and Health Administration.

pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).

ppm - Parts Per Million.

RTECS - Registry of Toxic Effects of Chemical Substances.

TWA/ES - Time Weighted Average or Exposure Standard.

## SUMMARY OF CODES:

RQ - Reportable Quantity measured in pounds (304, CERCLA)

TQ - Threshold Quantity measured in pounds (CAA)

TPQ - Threshold Planning Quantity measured in pounds (302)

^ - Reporting threshold has changed since November 1998.

- + Member of PAC category.
- # Member of diisocyanate category.
- X Indicates that this is a second name for a chemical already included on this consolidated list. May also indicate that the same chemical with the same CAS number appears on another list with a different chemical name.
- \* RCRA carbamate waste: statutory one-pound RQ applies until RQs are adjusted.
- \*\* This chemical was identified from a Premanufacture Review Notice (PMN) submitted to EPA. The submitter has claimed certain information on the submission to be confidential, including specific chemical identity.
- \*\* Indicates that no RQ is assigned to this generic or broad class, although the class is a CERCLA hazardous substance. See 50 Federal Register 13456 (April 4, 1985). Values in Section 313 column represent Category Codes for reporting under Section 313.
- c Although not listed by name and CAS number, this chemical is reportable under one or more of the EPCRA section 313 chemical categories.
- s Indicates that this chemical is currently under a administrative stay of the EPCRA section 313 reporting requirements, therefore, no Toxics Release Inventory reports are required until the stay is removed.
- ! Member of the dioxin and dioxin-like compounds category.

#### **HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

Page 4 of 5

**RMT** 

Reviewed: 23 Oct 2012

## Product Name ENDUROCLEAN (US)

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

#### **Report Status**

This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Material Safety Data Sheet ('MSDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this MSDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this MSDS.

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