

# **Material Safety Data Sheet**

Issuing date 29-Sep-2011 Revision Date 03-Jan-2012 Version 1

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name Swisher Reclaim Part B

Product code 40298 Reference number(s) 42153

UN/ID No UN3261

Recommended Use Powdered Laundry Sour

**Distributor** 

Swisher Hygiene Inc. 4725 Piedmont Row Drive, Suite 400,

Charlotte, NC 28210

**Chemical Emergency Phone** 

Number

800-424-9300 (Chemtrec)

**Company Emergency Phone** 

Number

800-444-4138

# 2. HAZARDS IDENTIFICATION

# **Emergency Overview**

This product contains substances which at their given concentration, are considered to be hazardous to health.

Appearance powder Physical state powder. Odor Mild

**Potential Health Effects** 

**Acute toxicity** 

EyesSevere Burns.SkinSevere burns.InhalationCauses severe burnsIngestionHarmful or fatal if swallowed

Chronic Effects No known effect based on information supplied

Aggravated Medical Conditions None known.

Environmental hazard See Section 12 for additional Ecological Information

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name CAS-No Weight %	
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Oxalic acid	144-62-7	0
Citric acid	77-92-9	0

#### 4. FIRST AID MEASURES

Flush with flowing water for 15 minutes & see physician. Eye contact

Skin contact Flush with flowing water for 15 minutes. See physician if irritation persists.

Inhalation Move to fresh air

Ingestion Give milk or water to dilute material; DO NOT induce vomiting. Avoid alcohol. CALL A

PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY; NEVER GIVE ANYTHING

BY MOUTH TO AN UNCONSCIOUS PERSON.

Treat symptomatically Notes to physician

## 5. FIRE-FIGHTING MEASURES

Flammable Properties **FLAMMABLE** 

Flash point N/A

Suitable Extinguishing Media Water spray, dry chemical, carbon dioxide, alcohol foam, if product is involved. Water or

foam may cause frothing.

**Hazardous Combustion Products** Carbon Monoxide, Formic Acid, Ammonia, Chlorine, Hydrogen Chloride.

**Explosion Data** 

Sensitivity to Mechanical Impact Sensitivity to Static Discharge

none none

Specific hazards arising from the

chemical

Product is a combustible solid below 215°F. Partial decomposition occures at 300°F. Decomposition include Carbon Monoxide & Formic Acid which are toxic & flammable, Can

Avoid exposure to fumes or vapors. Wear self-contained positive pressurized breathing

react violently with strong oxidizers.

**Protective Equipment and Precautions for Firefighters** 

apparatus MSHA/NIOSH approved or equivalent to maintain TLV.

**NFPA** Health Hazard 0 Flammability 0 Stability 0 Physical and chemical

hazards -

**HMIS** Health Hazard 3 Flammability 1 Physical Hazard 0 Personal protection E

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions Ensure adequate ventilation

Try to prevent the material from entering drains or water courses **Environmental precautions** 

**Methods for Containment** Isolate from sources of ignition Neutralize with sodium bicarbonate or sodium carbonate.

Neutralized solution is also toxic and should be handled accordingly

Sweep up immediately with minimum dusting. Collect in dry containers, label "POISON" & Methods for cleaning up

store in a cool dry place of low risk, away from food, food chemical or strong oxidizers.

Release of solutions may be subject to local regulations.

# 7. HANDLING AND STORAGE

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Advice on safe handling KEEP OUT OF REACH OF CHILDREN DANGER POISON Contains oxalic acid. May be

fatal if swallowed Do not contaminate water, food, or feed Do not get in eyes, on skin or on clothing Remove and wash contaminated clothing before re-use Avoid entry into sewers or

natural waters

Technical measures/Storage

conditions

Store upright in original container. Avoid all contact Do not use or store near heat, sparks or

open flames

#### 8, EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Review Section 3 & 4 for Exposure Guidelines.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Oxalic acid 144-62-7	STEL: 2 mg/m³ TWA: 1 mg/m³	TWA: 1 mg/m³	IDLH: 500 mg/m³ TWA: 1 mg/m³ STEL: 2 mg/m³

Engineering Measures Showers

Eyewash stations Ventilation systems

**Personal Protective Equipment Institutional Environment** 

Eye/Face Protection Safety glasses are suggested when using this product in heavy use and institutional

environments.

**Consumer Environments** Care should be taken to avoid Eye contact.

Skin and body protection Rubber gloves

**Respiratory protection** Unnecessary in open institutional environment.

Hygiene measures Practice good personal hygiene. Wash after handling.

### **Personal Protective Equipment Industrial Environment**

Eye/Face Protection Splash-proof chemical goggles or face shield.

**Skin and body protection** Impervious rubber, alkali-proof protecetive gloves Impervious rubber boots & apron.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Hygiene measures Practice good personal hygiene. Wash after handling. Shower at end of work period

Practice good personal hygiene. Wash after handling

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Physical state powder
Appearance powder Odor Mild

Color White Odor Threshold No information available

Remarks Methods **Property Values** 1.0 No information available No information available Melting/freezing point **Freezing Point** No information available Boiling point/boiling range NA No information available No information available Flash Point No information available **Evaporation rate** No information available

Flammability (solid, gas) Flammability Limits in Air

upper flammability limit

No information available

lower flammability limit

**Explosion Limits** 

upper lower

Vapor pressure NA No information available Vapor density NA No information available **Specific Gravity** 1.653 No information available Water solubility 13.7% solution at 77°F No information available No information available Solubility in other solvents Partition coefficient: n-octanol/water No information available Autoignition temperature No information available No information available

Decomposition temperature

Viscosity, kinematic

Viscosity, dynamic

Explosive properties No information available Oxidizing Properties No information available

9.2 Other information

Softening pointNo information availableMolecular WeightNo information availableVOC Content(%)No information availableDensity VALUENo information availableBulk Density VALUENo information available

# 10. STABILITY AND REACTIVITY

Stability Stable

**Incompatible products** Strong oxidizing agents, alkalies, chlorine bleach.

**Conditions to Avoid** Reacts with alkalies, decomposes above 300°F yielding toxic, flammable & corrosive

gases. Reacts with some silver compounds forming explosive silver oxalate. Reacts with

No information available

oxidizers such as chlorites & hypochlorites & oleum, possibly with violence.

Hazardous Decomposition Products Carbon Monoxide, Formic Acid, Ammonia, Chlorine, Hydrogen Chloride.

Hazardous Polymerization Hazardous polymerization does not occur

#### 11. TOXICOLOGICAL INFORMATION

#### **Acute toxicity**

**Product Information** Product does not present an acute toxicity hazard based on known or supplied information.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Oxalic acid	7500 mg/kg(Rat)	20000 mg/kg (Rat)	
Citric acid	3000 mg/kg (Rat)		

# **Chronic toxicity**

Target Organ Effects None known.

# 12. ECOLOGICAL INFORMATION

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#### **Ecotoxicity**

The environmental impact of this product has not been fully investigated

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Oxalic acid		4000: 24 h Lepomis macrochirus mg/L LC50 static		125 - 150: 48 h Daphnia magna mg/L EC50 Static
Citric acid		1516: 96 h Lepomis macrochirus mg/L LC50 static		

Chemical Name	log Pow
Oxalic acid	0

# 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of in accordance with applicable Federal, State & Local regulations. Aqueous

solutions ar ean EPA RCRA corrosive waste, having a hazardous waste ID#D002 (40 CFR

261.22). Solid acid is not hazardous waste.

Contaminated packaging Do not re-use empty containers

US EPA Waste Number D002

Chemical Name	California Hazardous Waste Status
Oxalic acid	Toxic

# 14. TRANSPORT INFORMATION

Note UN3261, Corrosive Solid, Acidic, Organic, n.o.s. (Contains Oxalic Acid), 8, PG III

**Dot** Regulated

Proper shipping name UN3261, Corrosive Solid, Acidic, Organic, n.o.s. (Contains Oxalic Acid), 8, PG III

Hazard class 8
UN/ID No UN3261
Packing Group III

TDG Not regulated

MEX Not regulated

ICAO Not regulated

ICAO/IATA Not regulated

IMDG / IMO Not regulated

RID Not regulated

ADR/RID Not regulated

ADN Not regulated

# 15. REGULATORY INFORMATION

# **International Inventories**

TSCA
DSL
Complies
NDSL
Complies
EINECS
Complies
ELINCS
-

ENCS Complies
IECSC Complies
KECL Complies
PICCS Complies
AICS Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### **U.S. Federal Regulations**

#### **SARA 313**

Sara Title III (EPCRA) NOTIFICATION: Does not contain chemicals subject of the reporting requirements of Section 302, 304, or 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986.

COMPREHENSIVE ENVIRONMENT RESPONSE, COMPENSATION, AND LIABILITY ACT(CERLA) NOTIFICATION: This does not contain chemical subject to reporting under CERCLA For more information consult 40 CFR parts 302, 355, 370, 372, and 40 CFR part 68.

# SARA 311/312 Hazard Categories

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

## **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

# **U.S. State Regulations**

# California Proposition 65

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

## International Regulations

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Chemical Name	Carcinogen Status	Exposure Limits
Oxalic acid		Mexico: TWA 1 mg/m <sup>3</sup>
		Mexico: STEL 2 mg/m <sup>3</sup>

#### Canada

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

# **16. OTHER INFORMATION**

Prepared By Swisher Hygiene Inc.

4725 Piedmont Row Drive

Suite 400

Charlotte, NC 28210

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Revision Note No information available

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

**End of Material Safety Data Sheet**