

SAFETY DATA SHEET



OPX LAUNDRY SOLID SOUR

Section 1. Chemical product and company identification

Product name : OPX LAUNDRY SOLID SOUR
Recommended use and restrictions : Laundry product
Use only for the purpose on the product label.

Product dilution information : Up to 60g/50 gallons in water

Supplier's information : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326

Code : 916564

Date of issue : 31 Oct 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Hazards identification

GHS Classification : **Product AS SOLD**
: SERIOUS EYE DAMAGE/ EYE IRRITATION -
Category 1

GHS label elements

Signal word : Danger

Symbol :



Hazard statements : Causes serious eye damage.

Precautionary statements

Prevention : Wash thoroughly after handling. Do not mix
with bleach or other chlorinated products - will
cause chlorine gas.

Response : IF IN EYES: Rinse cautiously with water for
several minutes. Remove contact lenses, if
present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or
physician.

Storage : No other specific measures identified.

Disposal : See section 13 for waste disposal information.

Other hazards : None known.

Product AT USE DILUTION

Not classified.

No signal word.

No known significant effects or critical
hazards.

Wash thoroughly after handling.

Get medical attention if symptoms appear.

No other specific measures identified.

See section 13 for waste disposal
information.

None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number
AMMONIUM CHLORIDE	2	12125-02-9
CITRIC ACID	>50	77-92-9
carboxylic acids, di-, c4-6	20 - 50	68603-87-2
alanine, n,n-bis(carboxymethyl)-, trisodium salt	5 - 20	164462-16-2
PEG-6 METHYL ETHER	1 - 5	9004-74-4

Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
Eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.	No known effect after eye contact. Rinse with water for a few minutes.
Skin contact	: No known effect after skin contact. Rinse with water for a few minutes.	No known effect after skin contact. Rinse with water for a few minutes.
Inhalation	: No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
Ingestion	: Get medical attention if symptoms occur.	Get medical attention if symptoms occur.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	
See toxicological information (section 11)		

Section 5. Fire-fighting measures

Product AS SOLD

Suitable fire extinguishing media	: Use water spray, fog or foam.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
Specific fire-fighting methods	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

	Product AS SOLD	Product AT USE DILUTION
Personal precautions	: Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.	Use personal protective equipment as required.
Environmental precautions	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
Methods for cleaning up	: Collect spillage. Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

Section 7. Handling and storage

	Product AS SOLD	Product AT USE DILUTION
Handling	: Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Wash thoroughly after handling. Do not mix with bleach or other chlorinated products - will cause chlorine gas.	Wash thoroughly after handling.
Storage	: Keep out of reach of children. Keep container tightly closed.	Keep out of reach of children.

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
AMMONIUM CHLORIDE	ACGIH TLV (United States, 3/2012). STEL: 20 mg/m ³ 15 minutes. Form: Fume TWA: 10 mg/m ³ 8 hours. Form: Fume NIOSH REL (United States, 6/2009). STEL: 20 mg/m ³ 15 minutes. Form: Fume TWA: 10 mg/m ³ 10 hours. Form: Fume

	Product AS SOLD	Product AT USE DILUTION
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Personal protection		
Eye protection	: Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
Hand protection	: No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
Skin protection	: No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
Respiratory protection	: A respirator is not needed under normal and intended conditions of product use.	A respirator is not needed under normal and intended conditions of product use.
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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.	

Section 9. Physical and chemical properties

	Product AS SOLD
Physical state	: Cast Solid
Color	: Tan
Odor	: Fragrance-like
pH	: 2.49 (1%)
Flash point	: > 100°C Product does not support combustion.
Explosion limits	: Not available.
Flammability (solid, gas)	: Not available.
Melting point	: Not available.
Boiling point	: >100°C (>212°F)
Evaporation rate (butyl acetate = 1)	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: Weighted average: 1.54 (Water = 1)
Solubility	: Soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Odor threshold	: Not available.
Viscosity	: Kinematic (room temperature): 0 cm ² /s (0 cSt)

Product AT USE DILUTION

Liquid.
Clear
Fragrance-like
2.49
> 100°C

Section 10. Stability and reactivity

Product AS SOLD

Stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Materials to avoid	: Highly reactive or incompatible with the following materials: alkalis. Reactive or incompatible with the following materials: metals. Do not mix with bleach or other chlorinated products - will cause chlorine gas.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Route of exposure : Skin contact, Eye contact, Ingestion

Section 11. Toxicological information

	Product AS SOLD	Product AT USE DILUTION
Symptoms		
Eye contact	: Adverse symptoms may include the following: pain watering redness	No specific data.
Skin contact	: No specific data.	No specific data.
Inhalation	: No specific data.	No specific data.
Ingestion	: No specific data.	No specific data.
Acute toxicity		
Eye contact	: Causes serious eye damage.	No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.	No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.	No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.	No known significant effects or critical hazards.

Toxicity data

Product/ingredient name

citric acid	LD50 Dermal	Rat	>2000 mg/kg
	LD50 Oral	Rat	11700 mg/kg
carboxylic acids, di-, c4-6	LD50 Dermal	Rat	>4940 mg/kg
	LD50 Oral	Rat	2131 mg/kg
alanine, n,n-bis(carboxymethyl)-, trisodium salt	LD50 Dermal	Rat	>4000 mg/kg
	LD50 Oral	Rat	>2000 mg/kg
poly(oxy-1,2-ethanediyl), .alpha.-methyl-.omega.-hydroxy-	LD50 Dermal	Rabbit	>21880 mg/kg
	LD50 Oral	Rat	>24068 mg/kg
ammonium chloride	LDLo Oral	Domestic animals.	1500 mg/kg

Chronic toxicity

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.

Section 12. Ecological information

Product AS SOLD

Ecotoxicity	: This material is toxic to aquatic life with long lasting effects.
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Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
citric acid	Acute LC50 >100 mg/l	Fish	96 hours
carboxylic acids, di-, c4-6	Acute LC50 59.5 mg/l	Fish	96 hours
alanine, n,n-bis(carboxymethyl)-, trisodium salt	Acute LC50 >200 mg/l	Fish	96 hours
poly(oxy-1,2-ethanediyl), .alpha.-methyl-.omega.-hydroxy-	Acute LC50 10000 mg/l	Fish	96 hours
ammonium chloride	Acute LC50 0.08 mg/l	Fish	96 hours
Other adverse effects	: No known significant effects or critical hazards.		

Section 13. Disposal considerations

Disposal methods : **Product AS SOLD**
 : Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT

DOT Classification : Not regulated.

IMO/IMDG

IMO/IMDG Classification : Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

Section 15. Regulatory information

Product AS SOLD

U.S. Federal regulations

TSCA 8(b) inventory : All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No listed substance

SARA 302/304 emergency planning and notification: No listed substance

SARA 313	Product name	CAS number	Concentration
Form R - Reporting requirements	: ammonium chloride	12125-02-9	1.7829 - 1.81

California Prop. 65 : No listed substance

Section 16. Other information

Product AS SOLD

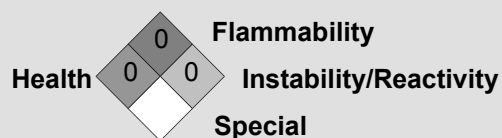
Hazardous Material :
 Information System (U.S.A.)

Health	*	3
Flammability		0
Physical hazards		0

National Fire Protection :
 Association (U.S.A.)

Product AT USE DILUTION

Health		0
Flammability		0
Physical hazards		0

Section 16. Other information

Date of issue : 31 Oct 2013
Prepared by : Regulatory Affairs
1-800-352-5326

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, **NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.**