

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : LAUNDRY DETERGENT 160

Other means of identification : Not applicable

Recommended use : Laundry product

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : Product is sold ready to use.

Company : Ecolab Colombia S.A.
Avenida Carrera 60 # 22-75 Parque Industrial Frapel Interior 5, 6 y 7
Bogotá, Cundinamarca, Colombia
01 8000-120020

Emergency telephone : CISPROQUIM® (24 hour service) Phone:
288 6012 / 919 1919 (Bogotá),
01 8000 916012 (Outside of Bogotá),
1800-59-3005 (Ecuador: solo Quito, La sierra, Centro and Norte),
Ecolab USA and Canadá 1-651-222-5352

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SECTION 2. HAZARDS IDENTIFICATION
GHS Classification

Acute toxicity (Oral) : Category 4

Skin corrosion/irritation : Category 2

Serious eye damage/eye irritation : Category 1

Short-term (acute) aquatic hazard : Category 2

Long-term (chronic) aquatic hazard : Category 3

GHS label elements

Hazard pictograms :




Signal Word : Danger

Hazard Statements : Harmful if swallowed.
Causes skin irritation.
Causes serious eye damage.
Toxic to aquatic life.
Harmful to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**
Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/ eye protection/ face protection.
Response:
IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

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Rinse mouth. IF ON SKIN: Wash with plenty of water. 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/ doctor. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash it before reuse.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards : None known.

Appearance : liquid

Color : cloudy, light yellow

Odor : slight

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical name	CAS-No.	Concentration (%)
alcohols, c12-16, ethoxylated >5EO	68551-12-2	10 - 30
Potassium Dodecylbenzenesulphonate	27177-77-1	10 - 30
Ethoxylated alcohol	Proprietary Ingredient	10 - 30
fatty acids, c12-18 and c18-unsatd.	90990-15-1	10 - 30
2-methylpentane-2,4-diol	107-41-5	10 - 30
amines, coco alkyl dimethyl, n-oxides	61788-90-7	1 - 5
Sulfuric acid	7664-93-9	0,1 - 1

SECTION 4. FIRST AID MEASURES

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician : Treat symptomatically.

Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials:
Carbon oxides
Nitrogen oxides (NO_x)
Sulfur oxides
Oxides of phosphorus
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Do not ingest. Avoid contact with skin and eyes. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).
- Conditions for safe storage : Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.
- Storage temperature : 45 °C to 20 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

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Components	CAS-No.	Form of exposure	Permissible concentration	Basis
2-methylpentane-2,4-diol	107-41-5	CMP-C	25 ppm	AR OEL
2-methylpentane-2,4-diol	107-41-5	CEIL	25 ppm 121 mg/m3	PE OEL
2-methylpentane-2,4-diol	107-41-5	LB	25 ppm	VE OEL
2-methylpentane-2,4-diol	107-41-5	VLE-P	25 ppm	NOM-010-STPS-2014
2-methylpentane-2,4-diol	107-41-5	TWA (Vapor)	25 ppm	ACGIH
		STEL (Vapor)	50 ppm	ACGIH
		STEL (Inhalable fraction, Aerosol only)	10 mg/m3	ACGIH
		Ceiling	25 ppm 125 mg/m3	NIOSH REL
Sulfuric acid	7664-93-9	CMP	1 mg/m3	AR OEL
		CMP - CPT	3 mg/m3	AR OEL
Sulfuric acid	7664-93-9	LPP	0,88 mg/m3	CL OEL
		LPT	3 mg/m3	CL OEL
Sulfuric acid	7664-93-9	TWA	1 mg/m3	PE OEL
		STEL	3 mg/m3	PE OEL
Sulfuric acid	7664-93-9	LT	0,2 mg/m3	VE OEL
Sulfuric acid	7664-93-9	VLE-PPT (Thoracic fraction)	0,2 mg/m3	NOM-010-STPS-2014
Sulfuric acid	7664-93-9	TWA (Thoracic particulate matter)	0,2 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z1

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Eye protection : Safety goggles
Face-shield

Hand protection : Wear the following personal protective equipment:
Standard glove type.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: cloudy, light yellow
Odor	: slight
pH	: 5,0 - 8,0, (100 %)
Flash point	: Not applicable, Does not sustain combustion.
Odor Threshold	: No data available
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapor pressure	: No data available
Relative vapor density	: No data available
Relative density	: 1,03 - 1,05
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Molecular weight	: No data available
VOC	: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: None known.
Incompatible materials	: None known.
Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: Carbon oxides

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Nitrogen oxides (NO_x)
Sulfur oxides
Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Potential Health Effects

Eyes : Causes serious eye damage.
Skin : Causes severe skin burns. Causes skin irritation.
Ingestion : Harmful if swallowed. Causes digestive tract burns.
Inhalation : May cause nose, throat, and lung irritation.
Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact : Redness, Pain, Corrosion
Skin contact : Redness, Pain, Irritation, Corrosion
Ingestion : Corrosion, Abdominal pain
Inhalation : Respiratory irritation, Cough

Toxicity

Product

Acute oral toxicity : Acute toxicity estimate : 1.285 mg/kg
Acute inhalation toxicity : No data available
Acute dermal toxicity : Acute toxicity estimate : > 5.000 mg/kg
Skin corrosion/irritation : No data available
Serious eye damage/eye irritation : No data available
Respiratory or skin sensitization : No data available
Carcinogenicity : Not classifiable as a human carcinogen.
Reproductive effects : No data available
Germ cell mutagenicity : No data available
Teratogenicity : No data available
STOT-single exposure : No data available
STOT-repeated exposure : No data available
Aspiration toxicity : No data available

SECTION 12. ECOLOGICAL INFORMATION

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Ecotoxicity

Environmental Effects : Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Product

Toxicity to fish : No data available

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae : No data available

Components

Toxicity to fish : alcohols, c12-16, ethoxylated >5EO
LC50: 1,5 mg/l

Potassium Dodecylbenzenesulphonate
96 h LC50 Fish: 3,2 mg/l

fatty acids, c12-18 and c18-unsatd.
96 h LC50 Fish: > 3,2 mg/l

2-methylpentane-2,4-diol
96 h LC50 Fish: 8.510 mg/l

Sulfuric acid
96 h LC50: 22 mg/l

Components

Toxicity to daphnia and other aquatic invertebrates : 2-methylpentane-2,4-diol
48 h EC50 Daphnia magna (Water flea): 2.800 mg/l

Components

Toxicity to algae : Ethoxylated alcohol
72 h EC50 green algae: > 10 mg/l

2-methylpentane-2,4-diol
72 h EC50 Pseudokirchneriella subcapitata (green algae): > 490 mg/l

Persistence and degradability

Biodegradable

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Do not contaminate storm water drains, natural waterways or soil with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

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Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

SECTION 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport: generally applicable for transport in Colombia.

Not dangerous goods

Air transport (IATA)

Contact Regulatory for air freight eligibility

Sea transport (IMDG/IMO)

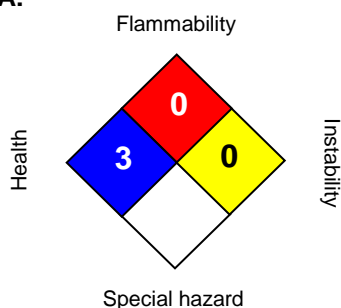
Not dangerous goods

SECTION 15. REGULATORY INFORMATION

Colômbia: Our MSDS complies with the requirements established by Colombian Technical Regulation 4435 and Colombian Technical Regulation 1692

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

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Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific

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material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.