

Material Safety Data Sheet

ECOLAB[®]

TRIPLET PLUS

Section 1. Chemical product and company identification

Trade name : TRIPLET PLUS
 Product use : Sanitizer.
 Supplier : Ecolab Inc. Institutional Division
 370 N. Wabasha Street
 St. Paul, MN 55102
 1-800-352-5326
 Code : 924736-01
 Date of issue : 29-August-2005
 EPA Registration No. : 5389-15-1677

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

Section 2. Composition, Information on Ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
sodium carbonate	497-19-8	5 - 20
troclosene sodium, dihydrate	51580-86-0	5 - 20

Section 3. Hazards identification

Physical state : Solid. (Powder.)
 Emergency overview : CAUTION!

HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED.
 CAUSES EYE IRRITATION.
 MAY CAUSE ALLERGIC SKIN REACTION.

Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Potential acute health effects

Eyes : Moderately irritating to the eyes.
 Skin : Moderately irritating to the skin.
 Inhalation : Slightly irritating to the respiratory system.
 Ingestion : Harmful if swallowed.

See toxicological information (section 11)

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention if irritation persists.
 Skin contact : Wash with soap and water. Get medical attention if irritation occurs. Wash clothing before reuse.
 Inhalation : If inhaled, remove to fresh air.
 Ingestion : Rinse mouth; then drink one or two large glasses of water. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Section 5. Fire fighting measures

Flash point : > 100°C
 Products of combustion : These products are halogenated compounds, hydrogen chloride.
 Fire fighting media and instructions : Use an extinguishing agent suitable for surrounding fires.

Dike area of fire to prevent product run-off.
 No specific hazard.

Special protective equipment :
 for fire-fighters

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.

Section 6. Accidental release measures

- Personal precautions** : Ventilate area of leak or spill. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment (Section 8). Stop leak if without risk. Prevent entry into sewers, water courses, basements or confined areas.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable vacuum or carefully scoop up spilled materials and place in an appropriate container for disposal. Avoid creating dusty conditions and prevent wind dispersal.

Section 7. Handling and storage

- Handling** : Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
- Storage** : Keep out of the reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area.
Do not store above 35°C

Section 8. Exposure Controls, Personal Protection

- Engineering controls** : Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal protection

- Eyes** : Eye protection recommended.
- Hands** : For prolonged or repeated handling, use Impervious gloves.
- Skin** : No protective equipment is needed under normal use conditions.
- Respiratory** : No protective equipment is needed under normal use conditions.

Name

chlorine

Exposure limits

ACGIH TLV (United States, 1/2004).

STEL: 2.9 mg/m³ 15 minute(s). Form: All forms

STEL: 1 ppm 15 minute(s). Form: All forms

TWA: 1.5 mg/m³ 8 hour(s). Form: All forms

TWA: 0.5 ppm 8 hour(s). Form: All forms

OSHA PEL (United States, 8/1997).

CEIL: 3 mg/m³ Form: All forms

CEIL: 1 ppm Form: All forms

Section 9. Physical and chemical properties

- Physical state** : Solid. (Powder.)
- Color** : White.
- Odor** : chlorine
- pH** : 9.9 (1%)

Section 10. Stability and reactivity

- Stability** : The product is stable.
- Reactivity** : Reactive with organic materials, acids, alkalis, moisture.
Mixing this product with acid or ammonia releases chlorine gas. Do not get water inside container. Wet material may generate halogenated gas that may pressurize sealed containers.
- Hazardous decomposition products** : These products are halogenated compounds, hydrogen chloride, chlorine.

Section 11. Toxicological information

Potential acute health effects

- Eyes : Moderately irritating to the eyes.
- Skin : Moderately irritating to the skin.
- Inhalation : Slightly irritating to the respiratory system.
- Ingestion : Harmful if swallowed.

Potential chronic health effects

Section 12. Ecological information

Products of degradation : These products are carbon oxides (CO, CO₂) and water, nitrogen oxides (NO, NO₂ ...), sulfur oxides (SO₂, SO₃...), halogenated compounds. Some metallic oxides.

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT Classification	Not regulated.	-	-	-	-

APPLIES ONLY DURING ROAD TRANSPORT

Any variation of the shipping description based on the packaging is not addressed.

Section 15. Regulatory information

- HCS Classification : Irritating material
- U.S. Federal regulations : SARA 302/304/311/312 extremely hazardous substances: None.
SARA 302/304 emergency planning and notification: None.
- TSCA 8(b) inventory : All materials are listed or exempt.
- California prop. 65 : No products were found.
- EPA Registration No. : 5389-15-1677

Section 16. Other information

Hazardous Material Information System (U.S.A.)	1
Reactivity	0
Personal protection	1
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- Date of issue : 29-August-2005.
- Responsible name : Regulatory Affairs
- Date of previous issue : No Previous Validation.

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.