

Material Safety Data Sheet



TRISTAR CHLORLITE

Section 1. Chemical product and company identification

Trade name : TRISTAR CHLORLITE
Product use : Bleach
Supplier : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326
Code : 900043-97
Date of issue : 25-February-2005

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 hypochlorite	7681-52-9	8.4

Section 3. Hazards identification

Physical state : Liquid. (Liquid.)

Emergency overview : Danger!

CAUSES EYE AND SKIN BURNS.
HARMFUL IF SWALLOWED.
CAUSES RESPIRATORY TRACT IRRITATION.

Do not ingest. Do not get in eyes, on skin or clothing. Avoid breathing vapor or mist.
Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Potential acute health effects

Eyes : Corrosive to eyes.
Skin : Corrosive to the skin.
Inhalation : Irritating to respiratory system.
Ingestion : Corrosive. Harmful if swallowed. May cause burns to mouth, throat and stomach.

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 immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

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. Get medical attention immediately.

Section 5. Fire fighting measures

Flash point	: > 100°C
Products of combustion	: These products are halogenated compounds, hydrogen chloride, chlorine gas.
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, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.--

Section 7. Handling and storage

Handling	: Do not ingest. Do not get in eyes, on skin or on clothing. Keep container closed. Use only with adequate ventilation. Avoid breathing vapor or mist. 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 40°C

Section 8. Exposure Controls, Personal Protection

Engineering controls	: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
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Personal protection

Eyes	: Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.
Hands	: Use chemical resistant, impervious gloves.
Skin	: Use suitable protective equipment.
Respiratory	: Avoid breathing vapor or mist.

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

Physical state	: Liquid. (Liquid.)
Color	: Yellow. (Light.)
Odor	: chlorine
pH	: 12.5 (100%)
Specific gravity	: 1.154 (Water = 1)

Section 10. Stability and reactivity

- Stability** : The product is stable.
- Reactivity** : Extremely reactive or incompatible with acids.
Slightly reactive to reactive with metals.
Mixing this product with acid or ammonia releases chlorine gas.
- Hazardous decomposition products** : These products are halogenated compounds, hydrogen chloride, chlorine.

Section 11. Toxicological information

Potential acute health effects

- Eyes** : Corrosive to eyes.
- Skin** : Corrosive to the skin.
- Inhalation** : Irritating to respiratory system.
- Ingestion** : Corrosive. Harmful if swallowed. May cause burns to mouth, throat and stomach.
- Chronic effects on humans** : Contains material which causes damage to the following organs: upper respiratory tract, skin, eye, lens or cornea

Section 12. Ecological information

- Products of degradation** : These products are 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.

- Waste classification** : Unused product is D002 (Corrosive)

Consult your local or regional authorities.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT Classification	UN1791	Hypochlorite solutions	8	III	Limited quantity Yes. Special provisions IB3, N34, T4, TP2, TP24

APPLIES ONLY DURING ROAD TRANSPORT

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

Section 15. Regulatory information

- HCS Classification** : Corrosive material
Target organ effects
- 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.

Section 16. Other information

Hazardous Material Information System (U.S.A.)	:	Health	*	3
		Fire hazard		0
		Reactivity		1
		Personal protection		B

Date of issue : 25-February-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.