

Material Safety Data Sheet



Valiant Shield

Section 1. Chemical product and company identification

Trade name : Valiant Shield
Product use : Teat dip
Supplier : Ecolab Inc. Food & Beverage Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-392-3392
Code : 900251-01
Date of issue : 18-March-2009

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>
lactic acid	50-21-5	1 - 5
urea	57-13-6	1 - 5

Section 3. Hazards identification

Physical state : Liquid. [Liquid.]
Emergency : CAUTION!
overview MAY CAUSE EYE IRRITATION.

Avoid contact with eyes. Wash thoroughly after handling.

Potential acute health effects

Eyes : Moderately irritating to eyes.
Skin : No known significant effects or critical hazards.
Inhalation : Slightly irritating to the respiratory system.
Ingestion : No known significant effects or critical hazards.

See toxicological information (section 11)

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation persists.
Skin contact : In case of contact, immediately flush skin with plenty of water. Wash clothing before reuse.
Inhalation : If inhaled, remove to fresh air.
Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. If irritation persists, get medical attention.

Section 5. Fire fighting measures

Flash point : > 100°C
Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides

Fire-fighting media and instructions : Use an extinguishing agent suitable for the surrounding fire.

Dike area of fire to prevent runoff.

In a fire or if heated, a pressure increase will occur and the container may burst.

:

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

Personal precautions : Use suitable protective equipment (section 8). Do not allow to enter drains or watercourses.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up : For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage

Handling : Avoid contact with eyes. Wash thoroughly after handling.

Storage : Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed.
Store between the following temperatures: 5 and 40°C

Section 8. Exposure controls/personal protection

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protection :

Eyes : Eye protection recommended.

Hands : No protective equipment is needed under normal use conditions.

Skin : No protective equipment is needed under normal use conditions.

Respiratory : A respirator is not needed under normal and intended conditions of product use.

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

Physical state : Liquid. [Liquid.]

Color : Green. [Dark]

Odor : Faint odor.

pH : 2.5 to 3.5 [Conc. (% w/w): 100%]

Boiling/condensation point : >100°C (>212°F)

Relative density : 1.004 to 1.034

Solubility : Easily soluble in the following materials: cold water and hot water.

Section 10. Stability and reactivity

Stability : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.

Reactivity : Slightly reactive or incompatible with the following materials: alkalis.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Potential acute health effects

Eyes	: Moderately irritating to eyes.
Skin	: No known significant effects or critical hazards.
Inhalation	: Slightly irritating to the respiratory system.
Ingestion	: No known significant effects or critical hazards.

Section 12. Ecological information

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

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.

UN Classification : Not regulated.

See shipping documents for specific transportation information.

Section 15. Regulatory information

HCS Classification	: Irritating material
U.S. Federal regulations	: SARA 302/304/311/312 extremely hazardous substances : No products were found. SARA 302/304 emergency planning and notification : No products were found. TSCA 8(b) inventory : All components are listed or exempted.
California Prop. 65	: No products were found.

Section 16. Other information

Hazardous Material Information System (U.S.A.) :	Health	1
	Flammability	0
	Physical hazards	0

Date of issue	: 18-March-2009.
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.**