



BIONIC 2000

1 - Product and Company Identification

Product Name: **BIONIC 2000 (USDA AUTHORIZED)**

Product Use: Vehicle /General Purpose Detergent

SUPPLIER:

MANUFACTURER:

Vector Laboratories
Howard Grant Corp.
316 Alexander St.
Youngstown, OH 44502
Tel: 800-331-0347

EMERGENCY: 800-255-3924 CHEM-TEL ID # MIS0004293

2 - Hazards Identification

2.1 Classification

H290: May be corrosive to metals

H320: Causes eye irritation

2.2 Label Elements



GHS Irritant

Signal Word (GHS – US)

Irritant

Hazard Statements (GHS – US) Not applicable

Precautionary Statements (GHS – US)

P233 – Keep container tightly closed

P262 – Do not get in eyes, on skin or on clothing

P264- Wash...thoroughly after handling

P280- Wear eye protection

P301+P330+P331 – If swallowed: rinse mouth. **DO NOT** induce vomiting

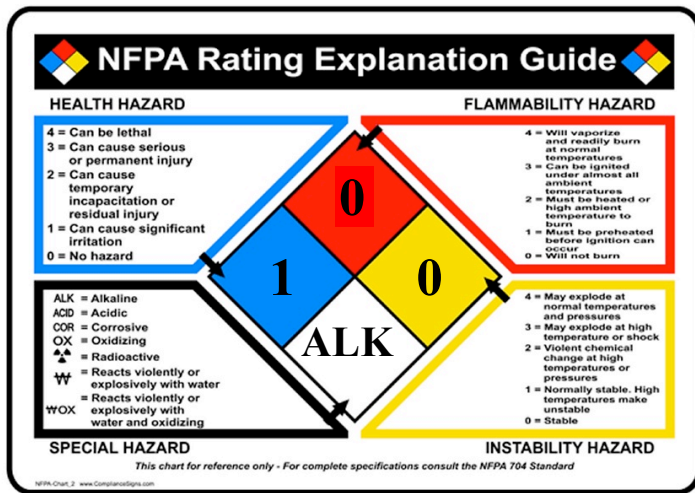
P303+P361+P353 – **IF ON SKIN (or hair):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 – **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P310 – If ingested, immediately call a doctor/physician

P404 – Store in a closed container

P501 – Dispose of contents/container according to local, regional, national and international regulations.



PERSONAL PROTECTION INDEX					
A			G		
B			H		
C			I		
D			J		
E			K		
F			X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions	
A		n		p	
Safety Glasses		o		q	
Splash Goggles		p		r	
Face Shield & Eye Protection		q		s	
Gloves		r		S	
Boots		s		Additional information	
Synthetic Apron		t			
Full Suit		u			
		w			
		y			
		z			

2.3 Other Hazards

Other Hazards not contributing to the classification:

None known

2.4 Unknown acute toxicity (GHS – US)

No data available

3 – Composition/information on ingredients

3.1 Chemical Identity: SOLUTION

3.2 Common name, synonyms, etc: Mixture; Alkaline solution; Alkaline detergent.

Chemical Name	Cas Number	% Present	GHS Classification	Notes
Sodium Metasilicate	6834-92-0	< 10 %	Met Corr 1, H290 Skin Corr 1B, H314 STOT SE 3; H335 Acute Tox 4 (Oral); H302 Eye Dam. 1; H318	[1]
Trade Secret Formulation		< 50 %		
Water	7732-18-5	> 50 %		

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

Full text of H-phrases: see section 16

4 – First Aid Measures

4.1 Description of First Aid Measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).



After inhalation: If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

After skin contact: Remove contaminated clothing. Immediately flush skin with plenty of water for at least 15 minutes. Wash skin thoroughly with soap and water or use a recognized skin cleanser. If irritation persists, seek medical advice.



After eye contact: Immediately flush with large quantities of water for at least 15 minutes while holding eyelids open. If contact lenses are present remove if easy to do so. Continue to flush eyes out. If irritation persists, seek medical attention immediately.

After ingestion: Immediately rinse mouth. Drink large quantities of water or milk for dilution effect; give diluted vinegar or lemon juice to conscious person; DO NOT induce vomiting; seek medical attention immediately.



4.2 Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: Irritant to eyes and skin.

Symptoms/Injuries after Inhalation: Coughing and burning in throat.

Symptoms/Injuries after skin contact: Irritation, redness and burning/stinging.

Symptoms/Injuries after eye contact: Irritation, reddening, tearing, burning.

Symptoms/Injuries after ingestion: Ingestion is likely to be harmful or have adverse effects.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical attention is needed have container or label at hand.

5 – Firefighting Measures

5.1 Extinguishing Media:

Use media appropriate for surrounding area. Water, Dry Chemical or Foam recommended.

5.2 Special hazards arising from the substance or mixture:

Fire Hazard: Not flammable

Explosion Hazard: Product is not explosive.

Other Hazards: Chemical Fires may release corrosive gases/vapours



5.3 Special protective equipment and precautions for firefighters

Do not enter area without proper protective equipment including respiratory protection.

Exercise caution when fighting any chemical fire.

Do Not allow run-off from fire fighting to enter drains or water courses.

6 – Accidental Release Measures

6.1 Personal Precautions, Protective Equipment And Emergency Procedures:

General Measures: May be corrosive to metals. Do not allow contact with metals. Do not get in eyes, on skin or clothing. Do not breathe (vapor, mist, gas). Wear protective equipment. Keep unprotected people away.

6.1.1 For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE)

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2 For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area. Stop leak if safe to do so.

6.2 Environmental Precautions:

Do not allow to enter sewers/surface, ground water or public waters.

6.3 Methods and Material for Containment and Cleaning Up

For containment: Cautiously neutralize spilled liquid. Absorb and contain with inert material then place in suitable container.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely according to Federal, State and local regulations.



7- Handling and storage

7.1 Precautions for safe handling:

Ensure good ventilation at workplace. Use proper safety equipment and clothing.

Handle in accordance with good industrial hygiene and safety procedures.

Do not eat, drink or smoke while handling.

Wash thoroughly after use; remove any contaminated clothing to be washed.

7.2 Conditions For Safe Storage, Including Any Incompatibles:

Store in a cool, dry, well ventilated place.

Keep container tightly closed when not in use. Storage areas should be periodically checked for corrosion and integrity.

Incompatible Products: Strong acids, strong oxidizers, metals.

Special Rules On Packaging: Store in original container or corrosive resistant and/or lined container.

7.3 Specific End Use(s)

For vehicle/general purpose cleaning (USDA Authorized detergent). For Industrial and Professional use only.

8 – Exposure Controls/Personal Protection

8.1 Control Parameters

8.2 Appropriate Engineering Controls:

Ensure all/national/local regulations are observed. Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.3 Individual protection measures (PPE – Personal Protection Equipment).

Protective clothing. Safety glasses. Face Shield. Gloves.

Eye Protection: Chemical goggles or face shield.

Hand Protection: Wear chemically resistant protective gloves.



9 – Physical and Chemical Properties

Physical State:.....Liquid
Appearance:.....Blue-Green Liquid
Odor:.....No Fragrance
Odor Threshold:.....N.A.
pH (Concentrate):.....12.4
Melt/freeze point:.....No data available
Boiling Point:.....218°F
Flash Point:.....No data available
Auto Ignition Temp......No data available
Decomposition Temp......No data available
Flammability (solid, gas).....No data available

Upper/lower flammability or explosive limits
Lower limits.....No data available
Upper limits.....No data available
Vapor Pressure.....No data available
Vapor Density:.....No data available
Relative Density:.....1.08 (water = 1)
Solubility:.....Complete
Evaporation Rate:.....N.A.
Solubility In Water:.....100%
Partition coefficient: n-octanol/water
.....No data available
Auto-ignition temp......No data available
Decomposition temp.....No data available

10 – Stability and reactivity

Chemical stability:Stable under normal circumstances.

Possibility of hazardous reactions.....No dangerous reactions known.

Conditions to avoid:Heat sources, flames, extremely low or high temperatures, contact with metals.

Incompatible materials:Strong Acids, strong oxidizers, metals.

Hazardous decomposition products:No dangerous decomposition products known.

11 – Toxicological Information

11.1 Information on the likely routes of exposure:

Eye contact	Inhalation
Skin contact	Ingestion

11.2 Symptoms related to the physical, chemical and toxicological characteristics:

Eyes: Stinging, redness, tearing, irritation and/or burning.
 Skin: Irritation, redness, itching and burning/stinging.
 Inhalation: Coughing or burning in throat.
 Ingestion: Burning, drooling, gagging.

11.3 Delayed and immediate effects and also chronic effects from short and long term exposure

Eyes: Causes eye irritation
 Skin: May cause skin irritation.
 Inhalation: No data available
 Ingestion: Ingestion is likely to be harmful or have adverse effects.
 Carcinogens: No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens.
 CHRONIC TOXICITY: No data available
 MUTAGENIC DATA: Not genotoxic.
 Carcinogenic categories:
 IARC (International Agency for Research on Cancer)
 None of the ingredients is listed.
 NTP (National Toxicology Program)
 None of the ingredients is listed.

11.4 Numerical measures of toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
Sodium Metasilicate (6834-92-0)	1,153.00, Rat – Category: 4	No data available	No data available	No data available	No data available

12– Ecological Information

12.1 Ecotoxicity (aquatic and terrestrial, where available)

No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in Soil

No further relevant information available.

12.5 Other adverse effects.

No further specific information available.

General Notes:

- Water hazard class 1: slightly hazardous for water
- Do not allow undiluted product or large quantities of the product to reach ground water, water course or sewage system.
- Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- Rinse off of bigger amounts into drain or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. diluted it will have minimal aquatic effect.
- **Results of PBT and vPvB assessment:** Not classified as PBT or vPvB.

Conclusion: Ultimately Biodegradable

13– Disposal Considerations

Waste treatment methods: Follow local, state and national regulations. Neutralization of pH prior to disposal is required.

Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal must be made in accordance with all relevant regulations.

14– Transport Information

14.1 UN number:

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

14.4 Packing Group:

Special Provisions

14.5 Marine Pollutant: No

14.6 Special Precautions:

15– Regulatory Information

Regulatory Overview: The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

OSHA Hazard Communication Standard:

Hazardous

Non Hazardous

Cercla/Superfund:

This product does not contain any chemicals subjected to the reporting requirements of SARA Section 313

SARA Extremely Hazardous Substances:

This product does not contain any chemicals subjected to the reporting requirements of SARA Section 313

SARA Hazard Categories:

Acute (Immediate)

Chronic

Fire

Pressure

Reactive

None

SARA Toxic Substances:

This product does not contain any chemicals subjected to the reporting requirements of SARA Section 313

US Toxic Substances Control Act/Inventory Status

All ingredients of this product are listed on the TSCA Inventory.

EPCRA (Emergency Planning and Community Right-to Know Act) Chemicals and Reportable Quantities (RQs (Lbs))

Triphosphoric acid, sodium salt 5,000 Lbs RQ

GHS:

This product is classified and labeled according to the Globally Harmonized System (GHS).

State Regulations:

None Listed

16– Other Information

Disclaimer: To the best of our knowledge, the information contained herein is accurate. However, neither Vector Laboratories nor any of its affiliates assume any liability whatsoever for the accuracy or completeness of the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Final determination of suitability of any material and whether there is any infringement of patents is sole responsibility of the user. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described in this publication, we cannot guarantee that these are the only hazards which exist. Users of any chemical should satisfy themselves by independent investigation of current scientific and medical knowledge that the material can be used safely.