

SAFETY DATA SHEETS

This SDS packet was issued with item:

078938347

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078233585

SAFETY DATA SHEET

J-649

Printed: 05/28/2015

Revision: 05/01/2015

Supersedes Revision: 04/23/2015

1. Product and Company Identification

Product Code:	J-649	
Product Name:	Jorvet Enzymatic Instrument Cleaner	
Company Name:	Jorgensen Laboratories	Phone Number:
	1450 N. VanBuren Avenue	1 (800) 525-5614
	Loveland, CO 80538	
Emergency Contact:	Chemtrec	1 (800) 424-9300

2. Hazards Identification

Skin Corrosion/Irritation, Category 3

Serious Eye Damage/Eye Irritation, Category 2

Respiratory Sensitization, Category 1

Skin Sensitization, Category 1

**GHS Signal Word:****Danger****GHS Hazard Phrases:**

Causes mild skin irritation.
 Causes serious eye irritation.
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 May cause an allergic skin reaction.

GHS Precaution Phrases:

Keep out of reach of children.
 Read label before use.
 Do not breathe {dust/fume/gas/mist/vapors/spray}.
 Do not get in eyes, on skin, or on clothing.
 Wear rubber gloves, chemical goggles, face shield and rubber apron.
 Wash hands thoroughly after handling.

GHS Response Phrases:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes. Get immediate medical advice/attention.
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get immediate medical advice/attention.
 IF ON SKIN: Take off contaminated clothing and wash before reuse. Wash with plenty of water for 15 minutes. If skin irritation occurs: Get medical advice/attention.
 IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Get immediate medical advice/attention.

Medical and Transportation Emergencies contact Chemtrec 1-800-424-9300

GHS Storage and Disposal Phrases:

Dispose of contents/container in accordance to local, state and federal regulations.

GHS format

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Hazard Rating System:

Health	2
Flammability	0
Physical	1
PPE	B

HMIS:
**Potential Health Effects
(Acute and Chronic)**

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
9014-01-1	Protease, Type VIII, from bacillus licheniformis	1.0 – 5.0%
10043-35-3	Boric acid	1.0 – 5.0%
102-71-6	Triethanolamine	< 3.0%

4. First Aid Measures

Emergency and First Aid**Procedures:**

No data available.

In Case of Inhalation:

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Get medical advice/attention.

In Case of Skin Contact:

Wash thoroughly with fresh, tepid water for 15 minutes. Discard contaminated clothing and footwear or wash before reuse. If skin irritation occurs: Get medical advice/attention.

In Case of Eye Contact:

Immediately flush eyes with large amounts of fresh, tepid water for at least 15 minutes. Hold eyelids open to ensure complete irrigation of eye and lid tissues. Tilt head to the side and irrigate the eye from the bridge of the nose to the outside of the face. Keep run-off from entering the other eye, mouth or ear. Washing eye within the first few seconds is essential to achieve maximum effectiveness. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

In Case of Ingestion:

Do not induce vomiting. Rinse mouth with fresh, tepid water, then immediately drink 4-8 oz. of milk or water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep airways open. Keep head lower than hips to prevent aspiration into the lungs. Get medical advice/attention.

5. Fire Fighting Measures

Flash Pt:

No data.

Explosive Limits:

LEL: No data.

UEL: No data.

Auto ignition Pt:

No data.

Suitable Extinguishing**Media:**Dry chemical, CO₂, sand, earth, water spray or regular foam.

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Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Flammable Properties and

Hazards: No data available.

6. Accidental Release Measures

Protective Precautions, Rubber or neoprene gloves, safety glasses. Wear chemical protective clothing. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Provide mechanical ventilation to disperse or
Protective Equipment and
Emergency Procedures: ventilate the area with fresh air. NIOSH/MSHA approved respirator.

Steps To Be Taken in Case Absorb spill with inert material (e.g., dry sand or earth), and dispose of in accordance with applicable
Material Is Released Or regulations.

Spilled:

7. Handling and Storage

Precautions To Be Taken For industrial or institutional use only. Avoid contact with eyes and prolonged or repeated skin contact.

In Handling: Avoid breathing (dust, vapor, mist, gas).

Precautions To Be Taken Keep container closed when not in use. Keep from freezing. Store away from incompatible material.

In Storing:

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
9014-01-1	Protease, Type VIII, from bacillus licheniformis	No data.	CEIL: 0.00006 mg/m3	No data.
10043-35-3	Boric acid	No data.	No data.	No data.
102-71-6	Triethanolamine	No data.	TLV: 5 mg/m3	No data.

Respiratory Equipment: A respirator is not needed under normal and intended conditions of product use. If there is no proper ventilation, wear a NIOSH/MSHA approved respirator.

(Specify Type):

Eye Protection: Safety glasses

Protective Gloves: Rubber or neoprene gloves

Other Protective Clothing: Wear chemical protective clothing.

Engineering Controls Handle in accordance with good industrial hygiene and safety practice in a well ventilated area.

(Ventilation etc.): Wash hands before breaks and at the end of the workday.

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Appearance: Dark Green Liquid

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	Odor: Mint odor.	
Melting Point:	No data.	
Boiling Point:	No data.	
Autoignition Pt:	No data.	
Flash Pt:	No data.	
Explosive Limits:	LEL: No data.	UEL: No data.
Specific Gravity (Water = 1):	1.050 – 1.070	
Vapor Pressure (vs. Air or mm Hg):	No data.	
Vapor Density (vs. Air = 1):	No data.	
Evaporation Rate:	No data.	
Solubility in Water:	100	
pH:	7.0 – 8.0	
Percent Volatile:	N.D.	

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions to Avoid: Avoid handling conditions which may allow for leaks and spills of this material. Do not permit personnel to handle this product without proper training and/or protective equipment.

Incompatibility – Materials to Avoid: Avoid contact with strong acids, bleach bases or other.

Hazardous Decomposition or Byproducts: No data available.

Possibility of Hazardous Reactions: Will occur [] Will not occur [X]

Conditions to Avoid – Hazardous Reactions: No data available.

11. Toxicological Information

Toxicological Information: Inhalation, Eye contact, Skin contact, Ingestion

Irritation or Corrosion:

Eyes:	Causes serious eye irritation.
Skin:	May cause skin irritation.
Ingestion:	No known effects.
Inhalation:	May cause nose, throat, and lung irritation.

Symptoms Related to Toxicological Characteristics:

Eyes:	Redness, pain, irritation.
Skin:	Redness, pain, irritation.
Ingestion:	No symptoms known.
Inhalation:	Respiratory irritation, cough

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Chronic Toxicological Effects: No known chronic toxicological effects.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

12. Ecological Information

General Ecological Information: This product has no known ecotoxicological effects.

13. Disposal Considerations

Waste Disposal Method: Dispose of contents/container in accordance to local, state and federal regulations.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Compound Cleaner, Not Regulated

DOT Hazard Class:

UN/NA Number:

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not Regulated.

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S.302 (EHS)	S.304 RQ	S.313 (TRI)
9014-01-1	Protease, Type VIII, from bacillus licheniformis	No	No	No
10043-35-3	Boric acid	No	No	No
102-71-6	Triethanolamine	No	No	No

16. Other Information

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Additional Information About This Product:

Company's Disclaimer: While Jorgensen believes the statements set forth herein are accurate as of the date hereof, Jorgensen makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation, and verification.