

MATERIAL SAFETY DATA SHEET

NOBURST[®] INHIBITOR BOOST

1. General

Trade Name	INHIBITOR BOOST	Date Prepared: 5/01/10
Manufacturer's Name	THE NOBLE COMPANY	
Address	7300 Enterprise Drive Spring Lake, MI 49456	
Emergency Telephone Number	(231) 799-8000	
Telephone Number for Information	(231) 799-8000	

2. Composition/Information on Ingredients

COMPONENTS	Wt. %	CAS RN
Phosphoric acid, dipotassium salt	~40 – 60	7758-11-4

3. Hazards Identification

Emergency Overview

Physical Appearance: Clear, colorless aqueous solution with no odor.

Immediate concerns: Poses little or no immediate concerns.

Potential Health Effects

Eyes: Not expected to cause significant irritation to the eyes.

Skin: Not expected to cause significant irritation to the skin.

Ingestion: Not expected to cause significant irritation of the digestive tract.

Inhalation: Not expected to cause significant irritation of the lungs, upper respiratory tract or nose.

Signs and Symptoms of Overexposure

Eyes: No significant signs or symptoms of exposure.

Skin: No significant signs or symptoms of exposure.

Ingestion: No significant signs or symptoms of exposure.

Inhalation: No significant signs or symptoms of exposure.

Potential Physical Hazards

Acute Effects: Not expected to cause significant adverse effects if absorbed through the skin.

Not expected to cause significant adverse effects if ingested.

No test data is available for acute inhalation toxicity.

Subchronic/Chronic Toxicity

Carcinogenicity: Not Listed by NTP

Not Listed by IARC

Not Listed by OSHA

Teratogenicity: Not Available

Reproductive Toxin: Not Available

Mutagenicity: This product was tested to be negative in a laboratory test tube study.

Medical Conditions Aggravated: None known

Sensitization: Not Available

Target Organs: May cause gastrointestinal tract effects based on animal data.

Comments: For detailed toxicological information see Section 11.

INHIBITOR BOOST (CON'T.)

4. First Aid Measures

Eyes	Wash eyes with clean flowing water for two to three minutes. Remove any contact lenses and continue flushing for 15 minutes. If irritation occurs or persists, get medical attention.
Skin	Remove contaminated clothing including shoes and wash skin with plenty of soap and water. If irritation occurs, seek medical advice. Wash contaminated clothing and shoes before reuse.
Ingestion	Wash out mouth with water and keep at rest. Seek medical attention.
Inhalation	Remove from further exposure. Keep warm and at rest. If cough or other symptoms develop, seek medical attention.

5. Fire Fighting Measures

Flammable Limits	: Not Available
Flashpoint and Method	: Not Available
Autoignition Temperature	: Not Available
Hazardous Combustion Products	: Oxides of phosphorus
General Hazard	: Evacuate personnel downwind of fire to avoid inhalation of irritating and/or harmful fumes and smoke.
Fire Fighting Equipment	: Respiratory and eye protection are required for fire fighting personnel. Full protective equipment (Bunker Gear) and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of a SCBA may not be required.
Flammable Class	: Nonflammable
Flame Propagation or Burning Rate of Solids	: Not Available
Fire Fighting Procedures	: This product is a nonflammable inorganic substance. However, hazardous decomposition and combustion products may be formed in a fire situation. Cool exposed containers with water spray to prevent overheating.
Extinguishing Media	: Chemical type foam, CO2 (Carbon Dioxide), Water fog.
Sensitive Static Discharge	: Not Available
Sensitivity to Impact	: Not Available

6. Accidental Release Measure

Release Notes	: If spill could potentially enter any waterway, including intermittent dry creeks, contact the local authorities. If in the U.S., contact the US COAST GUARD NATIONAL RESPONSE CENTER toll free number 800-424-8802. In case of accident or road spill notify: CHEMTREC in USA at 800-424-9300 CANUTEC in Canada at 613-996-6666 CHEMTREC, other countries, at (International code) +1 202 483 7616
Small Spill	: Construct temporary dikes of dirt, sand, or any appropriate readily available material to prevent spreading of the material. Wearing the appropriate personal protective equipment designated in Section 8, move the leaking container to a containment area or rotate the containment area or rotate the container so that the opening is above the liquid level. Absorb on diatomaceous earth or equivalent inert material. Shovel up and dispose of at an appropriate waste disposal facility according to current applicable laws and regulations, and product characteristics at time of disposal facility according to current applicable laws and regulations, and product characteristics at time of disposal.
Large Spill	: Construct temporary dikes of dirt, sand, or any appropriate readily available material to prevent spreading of the material. Wearing the appropriate personal protective equipment designated in Section 8, close or cap valves and/or block or plug hole in leaking container and transfer to another container. Contain material as described above and call the local fire or police department for immediate emergency assistance.

INHIBITOR BOOST (CON'T.)

Land Spill	: Use appropriate containment to avoid runoff or release to ground.
Water Spill	: Use appropriate containment to avoid runoff or release to sewer or waterways.
General Procedures	: Not Available
Comments	: See Section 13 for disposal information and Section 15 for regulatory requirements. Large and small spills may have a broad definition depending on the user's handling system. Therefore, the spill category must be defined at the point of release by technically qualified personnel.

7. Handling and Storage

Handling	: Use appropriate personal protective equipment as specified in Section 8. Handle in a well ventilated area. Handle and use in a manner consistent with good industrial/manufacturing techniques and practices.
Storage	: Store in unopened containers under cool and dry conditions.

8. Exposure Controls/Personal Protection

Engineering Controls	: Good ventilation should be sufficient to control airborne levels of material.
Eyes and Face	: Wear safety glasses with side shields or goggles when handling this material.
Skin	: To prevent any contact, wear impervious protective clothing such as neoprene or butyl rubber gloves, apron, boots or whole bodysuit, as appropriate.
Work Hygienic Practices	: Facilities storing or using this material should be equipped with an eyewash facility and a safety shower. Good personal hygiene practices should always be followed.
Respiratory	: Always wear NIOSH approved respiratory protective equipment where there may be potential for airborne exposure.
Comments	: This product contains no known OSHA hazardous ingredients per 29 CFR 1910.1200. No PEL's, TLV's or OEL's for this product or its ingredients are listed in the current issue of ACGIH's Guide to Occupational Exposure Values nor have they been determined by the manufacturer.

9. Physical and Chemical Properties

Physical State Liquid	Color Colorless	Odor Odorless	pH 10.0 to 10.3	Boiling Point 223 degrees F
Melting Point ~32 degrees F	Freezing Point Not Available	Appearance Clear	Evaporation Rate Not Available	
Molecular Weight 175.3 Unit: g/mol	Specific Gravity 1.54 Unit: @ 15 C/4 C	Vapor Pressure .1 mmHg at 68 degrees F		Vapor Density Not Available
Viscosity Not Available	Coeff Oil/Water Not Available		Water Solubility Miscible	

10. Stability and Reactivity

Stable	: Yes
Hazardous Polymer	: No
Stability	: The product is stable under normal ambient conditions of temperature and pressure.
Polymerization	: Will not occur
Conditions to Avoid	
Incompatible Materials	: Aluminum
Hazardous Decomposition:	Oxides of Phosphorus
Notes	: Heat

11. Toxicological Information

Eyes : This material is not expected to cause significant irritation to the eyes (3.0/110 at 24 hrs, 0/7 days).

Skin : This material is not expected to cause significant irritation to the skin (0.66/8.0).

ACUTE

Skin : Dermal LD50 (rabbit) . 5,000 mg/kg

Ingestion : Oral LD50 (rat) = 4,810 mg/kg

Inhalation : Not Available

Sensitization : Not Available

Target Organ : Gastrointestinal tract

CARCINOGENICITY

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NTP : Listed by NTP – No

OSHA : Listed by OSHA – No

Teratology : Not Available

Reproduction : Not Available

Mutagenicity : Negative in the Ames Test.

General Comments : Ingestion may cause weakness, confusion, gastrointestinal distress.

12. Ecological Information

Chemical Fate Information : Not Available

Distribution : Not Available

Ecotoxicological Information : Not Available

Environmental Data : This material will not cause adverse environmental impact if it reaches waterways.

13. Disposal Considerations

Disposal Method : Dispose of waste at an appropriate waste disposal facility according to current applicable laws and regulations

For Large Spills : Contain material and call local authorities for emergency assistance. In consultation with the appropriate authorities, determine the disposal method or contact The Noble Company.

Product Disposal : Dispose of at a supervised incineration facility or an appropriate waste disposal facility according to current applicable laws and regulations and product characteristics at time of disposal.

Empty Container : For inorganics, triple rinse with a suitable solvent and offer for recycle.

General Comments : Refer to Section 6, Accidental Release Measures for additional information.

14. Transport Information

DOT (Department of Transportation)

Proper Shipping Name : Corrosive Liquid, Basic, Inorganic, N.O.S

Technical Name : Phosphate, dipotassium

Hazard Class : 8

NA/UN Number : UN3266

Packing Group : III

Label : Corrosive

INHIBITOR BOOST (CON'T.)

INTERNATIONAL (I.M.0.)

Proper Shipping Name : Corrosive Liquid, Basic, Inorganic, N.O.S
Placards : Corrosive
Label : Corrosive
ADR/RID Hazard Classification : 8
ADR/RID Item Number : 42 c

AIR (I.C.A.O.)

Proper Shipping Name : Corrosive Liquid, Basic, Inorganic N.O.S
Label : Corrosive

15. Regulatory Information

CERCLA RQ : Not Applicable
International Regulations : All intentional ingredients are listed on the European's EINECS Inventory.
National Response Center : U.S. Coast Guard National Center telephone # 1-800-424-8802
Local Regulations : Not Available
State Regulations : Not Available

SARA Title III (Superfund Amendments and Reauthorization Act)

Acute : No
Chronic : No
Fire : No
Pressure Generating : No
Reactivity : No
313 Reportable
Ingredients : No
Comments : No

TSCA (Toxic Substance Control Act)

TSCA Regulatory : All intentional ingredients are listed on the TSCA Inventory.

CANADA

WHMIS : This product is not WHMIS controlled.
CANADA Ingredient
Disclosure List : This product does not contain any known ingredient(s) on the "Ingredient Disclosure List".
CEPA : All intentional ingredients are listed on the DSL (Domestic Substance List).
Mexico : This product is not classified according to Mexican Standard, Instruction No. 9, ANNEX 1.

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