

Material Safety Data Sheet

Revision Issued: 4/19/2005

Supersedes: 4/19/2005

First Issued: 4/19/2005

Section I - Chemical Product And Company Identification

Product Name: HB-X100

CAS Number: N/A

HBCC MSDS No. CW02557



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Section II - Composition/Information On Ingredients

Chemical Name	CAS Number	%	Exposure Limits (TWAs) in Air		
			ACGIH TLV	OSHA PEL	STEL
Poly(oxy-1,2 ethanediyl), alpha-(nonylphenyl)-omega-hydroxy	9016-45-9	< 30	N/A	N/A	N/A
Glycol ethers (fraction matching EPA definition)	N/A	< 1.0	N/A	N/A	N/A
Ethylene Oxide	75-21-8	< 0.001	1 ppm	N/A	N/A

Section III - Hazard Identification

Ingestion: Can cause irritation of the mucous membranes in the mouth, throat, esophagus, and stomach resulting in abdominal discomfort, nausea, and diarrhea.

Inhalation: Airborne concentrations or mist or spray may cause irritation to the upper respiratory tract and lungs.

Skin: Mildly irritating and can cause reddening and edema.

Eyes: Irritating to the eyes resulting in reddening and temporary discomfort.

Summary of Chronic Health Hazards: N/A

Signs and Symptoms of Exposure: N/A

Effects of Overexposure: See Ingestion, Inhalation, Skin, and Eyes above.

Medical Conditions Generally Aggravated by Exposure: N/A

Note to Physicians: N/A

Section IV - First Aid Measures

Ingestion: Drink several glasses of water. Do not give anything by mouth to an unconscious person. Induce vomiting, only under advice of a physician. Get immediate medical attention.

Inhalation: Move the victim to fresh air. Give artificial respiration if breathing has stopped. Get immediate medical attention.

Skin: Immediately flush the area with flowing water for at least 15 minutes. Remove contaminated clothing and laundry before reuse. Wash the exposed area with a non-abrasive soap and plenty of water.

Eyes: Immediately flush with plenty of water for at least 15 minutes, alternately lifting the upper and lower eyelids. Get medical attention.

Section V - Fire Fighting Measures

Flash Point: 460°C (PMCC)

Autoignition Temperature: N/A

Lower Explosive Limit: N/A

Upper Explosive Limit: N/A

Unusual Fire and Explosion Hazards: Sealed drums can develop explosive pressures under fire conditions. Use a water spray to cool.

Extinguishing Media: Standard fire fighting media, including water fog, foam, dry chemical, and carbon dioxide. Water or foam may cause frothing.

Special Firefighting Procedures: When this product is involved in a fire, firefighters should wear protective clothing and self-contained breathing apparatus to avoid exposure to vapors or products of combustion.

Section VI - Accidental Release Measures

Wear chemically protective clothing. Contain spill using an inert diking material. Transfer material into an approved container for possible recovery and reuse or for disposal. Keep product out of sewers, watersheds, and water systems. Solutions can provide a slipping hazard. Flush spill area with water.

Section VII - Handling and Storage

Containers should be stored in a cool, dry, well-ventilated area. Exercise due caution to prevent damage to or leakage from the container. Keep containers closed when not in use.

Other Precautions: Wash with soap and water when finished using this product. Wear rubber boots with safety toes; rubber, PVC, or polyethylene apron; rubber, PVC, or polyethylene clothing; eye wash safety fountain and safety shower should be available in the immediate area. Use good industrial practices in the storage, handling, and distribution of this product.

Section VIII - Exposure Controls/Personal Protection

Respiratory Protection: Avoid breathing vapor or mists. Use a NIOSH/MSHA approved respirator, with a full-facepiece or a full-facepiece respirator with organic vapor cartridges when concentrations are unknown.

Ventilation: Provide adequate ventilation or local exhaust ventilation to minimize exposure levels, particularly in areas where the air contacts open process equipment.

Protective Clothing: The wearing of rubber or neoprene gloves is recommended.

Eye Protection: Wear chemical splash goggles and/or full-face shield where there is potential for eye contact. An eyewash fountain should be located in areas where the product is used.

Other Protective Clothing or Equipment: N/A

Work/Hygienic Practices: Wash hands thoroughly with soap and water before eating, drinking, smoking or using toilet facilities. Do NOT place food, coffee or other drinks in the area where dusting or splashing of solutions is possible.

Section IX - Physical and Chemical Properties

Physical State: Liquid	pH: 7
Melting Point/Range: 41°F	Boiling Point/Range: N/A
Appearance/Color/Odor: Transparent blue with a slight odor	
Solubility in Water: Appreciable	Vapor Pressure (mmHg): > 1
Specific Gravity (Water=1): 1.06	Molecular Weight: N/A
Vapor Density (Air=1): > 1	% Volatiles: N/A
How to detect this compound : N/A	Evaporation Rate, n-BuAcetate=1: N/A
Odor Threshold: N/A	Freezing Point: N/A

Section X - Stability and Reactivity

Stability: Stable **Hazardous Polymerization:** Will not occur

Conditions to Avoid: High temperatures and flames

Materials to Avoid: None known

Hazardous Decomposition Products: High temperatures and flames may produce toxic carbon monoxide, carbon dioxide, and partial combustion products of aldehydes, acids, and ketones.

Section XI - Toxicological Information

N/A

Section XII - Ecological Information

N/A

Section XIII - Disposal Considerations

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Section XIV - Transport Information

DOT Proper Shipping Name: N/A

DOT Hazard Class/ I.D. No.: N/A

Section XV - Regulatory Information

SARA Title III Section 302 (Extremely Hazardous Substances): Ethylene Oxide (CAS 75-21-8)

Superfund Reportable Quantity Chemical: Ethylene Oxide (CAS 75-21-8) (RQ = 10 lb.); Glycol ethers (fraction matching EPA definition) (RQ = 1 lb.)

NFPA Rating: Health – 1; Fire - 1; Reactivity - 0
0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

Carcinogenicity Lists - NTP: No **IARC Monograph:** No **OSHA Regulated:** No

Section XVI - Other Information

Synonyms/Common Names: Nonionic surfactant

Chemical Family/Type: Alkylphenol ethoxylate

Change(s) made since last revision: First Issue

IMPORTANT! Read this MSDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This MSDS has been prepared according to the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The MSDS information is based on sources believed to be reliable. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, **Hill Brothers Chemical Company** makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Also, additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks prior to use, and then to exercise appropriate precautions for protection of employees and others.