

MATERIAL SAFETY DATA SHEET

Conforms to 93/112/EC and ISO 11014-1

1. Chemical Product and Company Identification

Product Name: Ecoscint H

Product Number: LS-275

Chemical Names/Description: Blend of nonionic surfactants and scintillators in chiral phenylalkanes.



2. Composition/Information on Ingredients

Component	% Comp.	CAS #	EINECS #
Phenyl Xylyl Ethane (PXE)	70 - 80	6196-95-8	
Butyl Dioxitol	93 C	Flammable Limits	N.D.
Flash Point Method	PMCC*	Autoignition temperature	N.D.

* Flash point value determined by Pensky-Martin Closed Cup method (PMCC). Upon request, alternate Tagliabue Closed Cup data (TCC) has been provided in some instances to local regulatory agencies.

Extinguishing media

Water spray, dry chemical, alcohol-resistant foam, or carbon dioxide.

Protective Equipment

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Hazardous Combustion Products

Fires involving this product may release carbon monoxide, carbon dioxide, reactive hydrocarbons and irritating vapors.

Unusual Fire and Explosion Hazards

Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back.

NFPA Codes: Health 1 Flammability 1 Reactivity 0

6. Accidental Release Measures

Steps to be taken in case material is released or spilled

Eliminate source of ignition. Ventilate area. Cover with absorbent material (dry sand or earth) to confine spill and sweep or shovel

into container. Close container tightly. Avoid breathing vapors.

Waste Disposal Method

Disposal must be made in accordance with applicable federal, state, and local regulations.

Personal Precautions

Wear appropriate protective equipment as specified in section 8.

7. Handling and Storage

Handling

Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling. Transfer methods should avoid static sparks. Do not eat, drink, or smoke in areas of use or storage.

Storage

Keep in a tightly closed container, stored in a cooled, dry, ventilated area away from sources of heat or ignition. Protect from physical damage.

Storage Temperature

Room Temperature

Disposal

Observe all national, state, and local regulations regarding disposal.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits

Component: Phenyl Xylyl Ethane (PXE)

ACGIH Threshold Limit Value (TLV): none established

OSHA Permissible Exposure Limit

(PEL):

Component: Butyl Dioxitol

ACGIH Threshold Limit Value (TLV): none established

OSHA Permissible Exposure Limit

(PEL):

Component: Linear alkyl phenyl ethoxylates

ACGIH Threshold Limit Value (TLV): none established

OSHA Permissible Exposure Limit

(PEL):

Engineering Controls

A system of local and/or general exhaust is recommended. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source.

Respiratory Protection

For conditions of use where exposure to the substance is apparent, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator.

Eye Protection

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Skin Protection

Wear protective gloves and clean body covering clothing.

Other Control Measures

N.A.

9. Physical Properties

Boiling point	575 - 605 F	Evaporation rate	Not measureable
Melting point	N.A.	Solubility in water	N.A.
Vapor pressure (mmHg)		pH	N.A.
Vapor density (Air = 1)	Not determinable	Specific gravity (H2O = 1)	0.91
% volatile by volume	100%		

10. Stability and Reactivity

Stability

Stable under ordinary conditions of use and storage.

Conditions to Avoid

Heat, sources of ignition.

Hazardous Decomposition Products

Combustion may produce toxic oxides of carbon, nitrogen, sulfur and reactive hydrocarbons.

Hazardous Polymerization

Will not occur

Incompatibles

Phenyl Xylyl Ethane (PXE):

Oxidizing agents.

Butyl Dioxitol:

Strong oxidizing agents.

Linear alkyl phenyl ethoxylates:

Oxidizing agents.

11. Toxicological Information

Product LD50 Values

Ecoscint H	Oral Rat LD50 (mg/kg):	N.D.
Ecoscint H	Dermal Rabbit LD50 (mg/kg):	N.D.

Component Cancer List Status

	NTP Carcinogen		IARC Category
	Known	Anticipated	
Phenyl Xylyl Ethane (PXE)	No	No	None
Butyl Dioxitol	No	No	None
Linear alkyl phenyl ethoxylates	No	No	None

12. Ecological Information

Phenyl Xylyl Ethane (PXE)

This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA is the responsibility of the user to determine, at the time of disposal, whether the product meets

the criteria for hazardous waste.

Butyl Dioxitol

No information available.

Linear alkyl phenyl ethoxylates

This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA is the responsibility of the user to determine, at the time of disposal, whether the product meets the criteria for hazardous waste.

13. Disposal Considerations

Observe all national, state, and local regulations regarding disposal.

14. Transport Information

D.O.T.

Proper Shipping Name: Not regulated.

Hazard Class: NA

UN Number: NA

Packing Group: NA

I.A.T.A.

Proper Shipping Name: Not regulated.

Hazard Class: NA

UN Number: NA

Packing Group: NA

I.M.O.

Proper Shipping Name: Not regulated.

Hazard Class: NA

UN Number: NA

Packing Group: NA

15. Regulatory Information

United States

TSCA Regulatory Statement

All intentional ingredients are listed on the TSCA Inventory.

SARA 311/312 Hazard Categories

Component	Fire	Pressure	Reactivity	Acute	Chronic
Phenyl Xylyl Ethane (PXE)	No	No	No	Yes	No
Butyl Dioxitol	No	No	No	No	No
Linear alkyl phenyl ethoxylates	No	No	No	Yes	No

Europe

EEC Regulatory

All intentional ingredients are listed on the European EINECS Inventory.

EEC LABEL SYMBOL AND CLASSIFICATION



R: 36/38

Irritating to eyes and skin

S: 26-36

In case of contact with eyes, rinse immediately with plenty of water, and seek medical advice. Wear suitable protective clothing.

16. Other Information

NFPA Codes: Health 1 Flammability 1 Reactivity 0

MANUFACTURER DISCLAIMER: The information given herein is offered in good faith as accurate, but without guarantee. Conditions of the use and suitability of the product for particular uses are beyond our control. All risks of use of the product are therefore assumed by the user. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.