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Version 2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name PR-1470

Other means of identification

Product Code 2.6.127

Synonyms Polyurethane Dispersion

Recommended use of the chemical and restrictions on use

Recommended Use: Water-borne coatings.

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address

Quaker Color Division of McAdoo & Allen,
Inc
201 S. Hellertown Avenue
Quakertown, PA 18951 USA

Emergency telephone number

Company Phone Number +1-215-536-3520 (Eastern)

Emergency Telephone PERS Emergency Response Information: Domestic Shipments and to Canada:
1-800-633-8253• International Shipments: 1-801-629-0667

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A

Label elements

Emergency Overview

Warning

Hazard statements

Causes skin irritation

Causes serious eye irritation



Appearance opaque

Physical state Liquid

Odor None

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/eye protection/face protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of water and soap
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash it before reuse

Hazards not otherwise classified (HNOC)

Not applicable

Other information**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms Polyurethane Dispersion.
Chemical characterization Mixture.
Chemical nature Aqueous dispersion.

Chemical name	CAS No.	Weight-%	Trade secret
Triethylamine	121-44-8	0.5 - 1.5	*
Dipropylene Glycol Dimethyl Ether	111109-77-4	7 - 13	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**Description of first aid measures**

Eye Contact Get medical attention if symptoms occur.

Skin Contact Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.

Inhalation Move to fresh air in case of accidental inhalation of vapours. If symptoms persist, call a physician. If not breathing, give artificial respiration.

Ingestion If sprayed in mouth, rinse mouth with water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Carbon dioxide (CO2). Dry chemical. Water.

Unsuitable Extinguishing Media None.

Specific hazards arising from the chemical

No information available.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO₂).

Explosion data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

Protective equipment and precautions for firefighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with the skin and the eyes. Use personal protective equipment. Ensure adequate ventilation.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Contain spill with inert material (e.g. sand, silica gel, binder).

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Stir before use.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a cool, well-ventilated place. Store in original container. Keep from freezing.

Incompatible Products Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Triethylamine 121-44-8	TWA: 1 ppm Skin STEL: 3 ppm	TWA: 10 ppm	200 ppm

Legend

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value.

OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits.

NIOSH IDLH: National Institute for Occupational Safety and Health - Immediately Dangerous To Life or Health

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations
Ventilation systems. Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection	Tightly fitting safety goggles.
Skin and body protection	Suitable protective clothing. Long sleeved clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	Odor	None
Appearance	opaque	Odor threshold	No information available
Color	white		
<u>Property</u>	<u>Values</u>	<u>Remarks/ • Method</u>	
pH	8.1		
Melting point / freezing point	No information available		
Boiling point / boiling range	100 °C / 212 °F	Literary reference	
Flash point	No data available		
Specific gravity	1.01	Calculated	
Water solubility	dispersible		
Kinematic viscosity	43 cPs		
Dynamic viscosity	No information available		
Explosive properties	Not explosive.		
Oxidizing properties	Not an oxidizer		

Other information

Molecular weight	No information available
VOC Content (%)	<11%
Density	1.01 g/cm ³

10. STABILITY AND REACTIVITY

Reactivity

No known effects under normal use conditions

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Excessive heat. Do not freeze.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information No toxicology data are available on this product. The health hazard assessment is based on properties of the components.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Triethylamine 121-44-8	= 460 mg/kg (Rat)	= 415 mg/kg (Rabbit)	= 14.5 mg/L (Rat) 1 h

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.
Germ cell mutagenicity No information available.
Carcinogenicity No component of this product present at levels greater than or equal to 0.1% is listed with NTP, IARC or OSHA.
Reproductive Effects No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Chronic toxicity No known chronic effects based on supplied information.
Aspiration Hazard No information available.

Numerical measures of toxicity - Product Information

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Crustacea
Triethylamine 121-44-8	Not applicable	LC50: =43.7mg/L (96h, Pimephales promelas)	EC50: =200mg/L (48h, Daphnia magna)

Persistence and degradability

No information available.

Bioaccumulation

Partition coefficient.

Chemical name	Partition coefficient
Triethylamine 121-44-8	1.45

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Methods Should not be released into the environment. It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.

Contaminated packaging Empty containers should be taken for local recycling, recovery or waste disposal.

US EPA Waste Number Waste codes should be assigned by the user based on the application for which the product

was used.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Triethylamine 121-44-8	waste number U404	Included in waste streams: K156, K157	-	U404

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

Complies
Not Listed

Legend:

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values
Triethylamine - 121-44-8	1.0

SARA 311/312 Hazardous

Categorization

Refer to Section 2 of SDS for applicable GHS hazard categories for SARA reporting purposes.

Clean Water Act

Clean Water Act

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Triethylamine 121-44-8	5000 lb	-	-	X

CERCLA

Chemical name	Hazardous Substances RQs	CERCLA EHS RQs	RQ
Triethylamine 121-44-8	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

State Right-to-Know

Chemical name	New Jersey	Massachusetts	Pennsylvania
Triethylamine 121-44-8	X	X	X
Water 7732-18-5	-	-	X

16. OTHER INFORMATION

NFPA Health hazards 2 Flammability 0 Instability 0
HMIS Health hazards 2 Flammability 0 Physical hazards 0

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Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet