

SAFETY DATA SHEET

According to REACH, Commission Regulation (EU) 2015/830 of 28 May 2015

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	FUNCTIONAL CI-446EP
Chemical Family	Amine Phosphates
Product Use	Corrosion Inhibitor / Anti-Wear Additive
CAS Registry Number	Proprietary
Revision Date	October 16, 2018

Manufacturer: Functional Products, Inc.
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Emergency Phone Numbers:
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Section 2: HAZARDS IDENTIFICATION

According to Regulation 2012 OSHA Hazard Communication Standard; 29CFR Part 1910.1200



Warning

Aquatic Chronic Category 4 – Hazardous to the aquatic environment, long-term hazard

2.2 LABEL ELEMENTS

Symbols:



Hazard statements:

H315 - Causes skin irritation

H319 - Causes serious eye irritation

Precautionary statements:

P273 - Avoid release to the environment.

P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lens if present and easy to remove. Continue rinsing.

P202 – Do not handle until all safety precautions have been read and understood

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE/ PREPARATION	% (w/w)	CAS #
Petroleum Oil	38-56	64742-46-7
Diocetyl phosphoric ester	18-29	1809-14-9
C11-14 Branched Alkyl Amines, C8 alkyl Phosphate	22-34	80939-62-4

Section 4: FIRST-AID MEASURES

Inhalation:	If inhaled, remove to fresh air. Get medical attention. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Ingestion:	If affected person is conscious, give plenty of water to drink. Never give anything to drink to an unconscious person. Get medical attention if symptoms appear.
Skin Contact:	Wash with soap and water. Get medical attention if irritation develops.
Eye Contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Section 5: FIRE-FIGHTING MEASURES

Flash Point:	> 80° C / 176° F
Upper Flammable Limit:	Not determined.
Lower Flammable Limit:	Not determined.
Extinguishing Media:	In case of fire use water spray (fog), foam or dry chemicals.
Hazardous Combustion Products:	Oxides of carbon, nitrogen and phosphorus. Smoke and fumes.
Fire-Fighting Procedures:	Recommended to wear self-contained breathing apparatus and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Personal Protective Equipment must be worn. Keep unnecessary personnel away.
Environmental Precautions And Clean Up Methods:	Spills should be contained, absorbed and containerized for disposal in accord with local, state and federal regulations. Do not flush into surface water, sanitary sewer or ground water system.

Section 7: HANDLING AND STORAGE

Handling:	Wash thoroughly after handling.
Storage:	Keep container tightly closed, in cool, well ventilated area.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation:	Use with adequate ventilation.
Hands:	Use chemical resistant, impervious gloves.
Eyes:	Use safety glasses, goggles or face mask.
Clothing:	Long sleeve shirt is recommended.
Respiratory System:	Use appropriate respiratory protection if there is the potential for overexposure to fumes.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Yellow
Odor:	Amine-like.
Density:	0.92 g / cm ³ at 15°C (59 ° F)

Solubility:	Insoluble in water.
Boiling Point:	N / A
Vapor Pressure:	< 0.1
Evaporation Rate:	< 1

Section 10: STABILITY AND REACTIVITY

Stability:	The product is stable.
Incompatibility:	Strong acids, bases, oxidants and reducing agents.
Conditions to Avoid:	Not known

Section 11: TOXICOLOGICAL INFORMATION

ACUTE EXPOSURE

Oral Toxicity:	No data available
Eye Irritation:	No data available
Skin Irritation:	No data available
Dermal Toxicity:	No data available
Inhalation Toxicity:	No data available

CHRONIC EXPOSURE

Chronic Toxicity:	No data available
Carcinogenicity:	No data available
Teratogenicity:	No data available
Reproductive Toxicity:	No data available

Section 12: ECOLOGICAL INFORMATION

Environmental Hazards:	No data available
Environmental Fate:	No data available
Fish Toxicity:	No data available
Algae Toxicity:	No data available
Bacteria Toxicity:	No data available

Section 13: DISPOSAL CONSIDERATIONS

Waste Disposal:	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
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