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
			Inctional Products, Inc.
			282 Bavaria Road Macedonia,
			nio 44056, USA Tel (USA): + 1
			30-963-3060
			ax (USA): + 1 330-963-3322 mail: SDS@functionalproducts.com
		L-	mail. <u>SDS@runctionalproducts.com</u>
European Supplier:		Lι	ımar Quimica S.L.U.
			ilanesat, 25-27, 4t. 1a.
			017 Barcelona
Spain			
		Te	: + 34 93 594 75 00
		Fa	ıx: + 34 93 594 75 01
		E-	mail: <u>lumar@lumarquimica.com</u>
– – –	NU 1		
• •	none Numbers:		
United States:			330-963-3060 (8:00AM-5:00PM EST)
Europe	Ι Λ).		34 93 594 75 00 (08:00 -13:00 14:00-17:00) 22 (0)1 45 42 50 50
France (ORFI	LA).	+	33 (0)1 45 42 59 59

Section 2: HAZARDS IDENTIFICATION

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



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

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: Upper Flammable Limit: Lower Flammable Limit:	> 80° C / 176° F Not determined. Not determined.
Extinguishing Media: Hazardous Combustion	In case of fire use water spray (fog), foam or dry chemicals.
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: Storage: Wash thoroughly after handling. 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:
Color:	
Odor:	
Density:	

Liquid Yellow Amine-like. 0.92 g / cm³ 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: Incompatibility: Conditions to Avoid: The product is stable. Strong acids, bases, oxidants and reducing agents. 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.

Section 14: TRANSPORTATION INFORMATION

U.S DOT Bulk	Not regulated
U.S. DOT Non-Bulk	Not regulated
IMDG Code	Not regulated
ICAO	Not regulated
ADR/RID Hazard Class	Not regulated

Section 15: REGULATORY INFORMATION

U.S. TSCA Inventory: Other TSCA Reg.:	Yes No
SARA EXT. HAZ. SUBS:	No
SARA Section 313:	No
CERCLA:	No
CAL. PROP. 65:	No
Japan	Listed - MITI
Australia	Listed - AICS
Europe	Listed - EINECS
	Polymers are exempt
China	Listed - IECSC
Canada	Listed - DSL
	WHMIS – not controlled.
Korea	Listed - KECI
New Zealand	Listed - NZIoC
Philippines	Listed - PICCS

Section 16: OTHER INFORMATION

NFPA CODE

Health: 1 Fire: 1 Reactivity: 0

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