

SAFETY DATA SHEET

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

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	FUNCTIONAL WA-64
Chemical Family	Lubricant Additive
Product Use	Waylube Additive for Mineral Oils
CAS Registry Number	Mixture
Revision Date	April 18 th 2022

Manufacturer: Functional Products, Inc.
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Section 2: HAZARDS IDENTIFICATION

GHS Classification

Aspiration Toxicity: Category 1
Eye Irritation: Category 2A
Skin Irritation: Category 2
Acute Aquatic Toxicity: Category 3

Signal Word: **DANGER**

Symbols:



Hazard Statements:

H315 - Causes skin irritation
 H319 - Causes serious eye irritation
 H304 - May be fatal if swallowed and enters airways
 H402 - Harmful to aquatic life

Prevention Precautionary Statements:

P264 - Wash face, hands and any exposed skin thoroughly after handling.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P273 - Avoid release to the environment.

Response Precautionary Statements:

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
 P332+P313 - If skin irritation occurs: Get medical advice/attention.
 P362 - Take off contaminated clothing and wash before reuse.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 - If eye irritation persists: Get medical advice/attention.
 P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Storage Precautionary Statements:

P405 - Store locked up.

Disposal Precautionary Statements:

P501 - Dispose of contents/container in accordance with local regulations.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Preparation	% (w/w)	CAS #
Alkyl Sulfides	20 – 30	Proprietary
Amine Phosphates	20 – 30	Proprietary
Petroleum Oil, Light Hydrotreated	20 – 30	Proprietary
Esters	15 – 25	Mixture

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:	> 135° C / 275° 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, Sulfur, Phosphorus, Nitrogen, Smoke and Fumes.
Fire Fighting Procedures:	Recommended wearing self-contained breathing apparatus and full turnout 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. Prevent entry to sewers and water-ways.

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	Use appropriate respiratory protection if there is any potential for uncontrolled release or exposure levels are not known.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Amber
Odor:	Mild
Density	0.95 g / cm ³ at 15 deg C (59 Deg F)
Solubility:	Insoluble in water.
Viscosity at 40°C:	45 cSt

Section 10: STABILITY AND REACTIVITY

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

Section 11: TOXICOLOGICAL INFORMATION

Eye Damage/Irritation

ACUTE EXPOSURE

Serious eye irritation (Rabbit).

Skin Corrosion/Irritation

Irritation to skin (Rabbit).

Oral Toxicity

LD50 (rat) = >5000 mg/kg, No Hazard

Dermal Toxicity

LD50 (rat) = >5000 mg/kg, No Hazard

Inhalation Toxicity - Vapor

LD50 (rat, 4hr), >20 mg/L, No Hazard

Inhalation Toxicity - Gas

No data available.

Inhalation Toxicity - Dust/Mist

No data available.

Single Exposure Specific Target Organ Toxicity

No components of this mixture are classified.

Aspiration Toxicity

Category 1, contains >10wt% of Aspiration 1.

Respiratory Sensitization

CHRONIC EXPOSURE

Not sensitizing (Guinea Pig).

Skin Sensitization

Not sensitizing (Guinea Pig).

Repeated Exposure Specific Target Organ Toxicity

No components of this mixture are classified.

Carcinogenicity

No components or impurities that may cause cancer or are suspected of causing cancer are present >0.1%.

Mutagenicity

No mutagenicity observed from any components or impurities present at >0.1wt%.

Reproductive Toxicity

No reproductive toxicity observed from any components or impurities present at >0.1wt%.

Section 12: ECOLOGICAL INFORMATION

Acute Aquatic Toxicity

ENVIRONMENTAL HAZARDS

This mixture is classified
Acute Aquatic Toxicity Category 3:
harmful to aquatic life.

Fish Toxicity

10 - 100 mg/L, 96hr LC50 (Zebra Fish)

Crustacea Toxicity

10 - 100 mg/L, 48hr EC50 (Daphnia)

Algae Toxicity

10 - 100 mg/L, 72hr ErC50 (Algae)

Chronic Aquatic Toxicity

This product is not suspected of lasting effects to aquatic life.

Criteria

Chronic toxicity classified by GHS bridging principles using acute aquatic toxicity, rapid degradability, and bioaccumulation data.

ENVIRONMENTAL FATE

Persistence

Bioaccumulation

40.1wt% of components in this mixture are considered bioaccumulative (log Pow > 4 and/or BCF > 500 L/kg).

Water-Octanol Partition Coefficient

Water-octanol partition coefficient (log Pow, or Kow) varies from 1.15 - 23.3 among components in this mixture.

Bioconcentration Factor

Weight-average log Pow from components' Pow is 22.

N/A

Degradation

Rapidly Degradable Status

This mixture consists of 21.0wt% rapidly degradable components (>70% by OECD 301B or >60% by CO2 or O2 methods).

Biodegradability

The weight-averaged biodegradability among components in this mixture is 36.1% from OECD and CEC 28-day methods.

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:	Yes
Other TSCA Reg.:	No
SARA EXT. HAZ. SUBS:	No
SARA Section 313:	No
CERCLA:	No
CAL. PROP. 65:	No
Japan MITI:	Listed - MITI
Australia:	Listed - AICS
Europe:	Listed - EINECS
	Polymers are exempt from EINECS inventory under the polymer exemption.
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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