

SAFETY DATA SHEET

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

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	FUNCTIONAL V-5048
Chemical Family	Synthetic Esters
Product Use	Lubricant Base Stock
CAS Registry Number	Mixture
Revision Date	October 28 th 2021

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Section 2: HAZARDS IDENTIFICATION

This material is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

According to Regulation (EC) N^o 1272/2008 [CLP]

This is not a hazardous substance or mixture according Regulation (EC) No. 1272/2008.
No need for classification according to GHS criteria for this product.

According to Directive 67/548/EEC or 1999/45/EC

This is not a hazardous substance of mixture according to EC-directives 67/548/EEC or 1999/45/EC.

This material has no known hazards, if the regulations/notes for storage and handling are considered and followed.

2.2 LABEL ELEMENTS

Globally Harmonized System, EU (GHS)

The product does not require a hazard warning label in accordance with GHS criteria.

According to Regulation (EC) N° 1272/2008 [CLP]

The product does not require a hazard warning label in accordance with Regulation (EC) No. 1272/2008.

According to Directive 67/54//EEC or 1999/45/EC

European Economic Community (EEC) Directives

The product does not require a hazardous warning label in accordance with EEC Directives.

2.3 OTHER ELEMENTS

If it is applicable, information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

According to Regulation (EC) No. 1272/2008 [CLP]

This material has no known hazards

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance/ Preparation	% (w/w)	CAS #
Synthetic Esters	99 – 100	Mixture
Butylated Phenol Derivative, Tetrakis	0.1 – 1.0	6683-19-8

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:	Do not induce vomiting. If vomiting occurs, keep head below hips to avoid breathing the products into the lungs.
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:	200° C / 392° F
Upper Flammable Limit:	Not determined.
Lower Flammable Limit:	Not determined.
Extinguishing Media:	In case of fire, use water, foam, dry chemicals or CO2.
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. Ventilate area and avoid breathing vapor or mist.
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-way.

Section 7: HANDLING AND STORAGE

Handling:	Avoid contact with eyes and skin, Wash thoroughly after handling. Avoid breathing vapor or dust. Keep away from heat, sparks and flames.
Storage:	Keep container tightly closed, in cool, well-ventilated and dry area.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation:	Use with adequate ventilation to control fumes.
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 any potential for uncontrolled release or exposure levels are not known.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid.
Viscosity:	4800 cSt @ 40°C
Color:	Yellow to amber.
Odor:	Mild fatty.
Specific Gravity:	0.99 @ 60°F (water=1).
Solubility:	Insoluble in water.
Vapor Pressure:	< 0.1 mm Hg @ 68°F (20°C).
Boiling Point:	> 392°F (200°C).

Section 10: STABILITY AND REACTIVITY

Stability:	The product is stable.
Incompatibility:	Strong oxidants.
Conditions To Avoid:	Excessive temperature.
Hazardous Decomposition:	Carbon oxides.
Polymerization:	Polymerization will not occur.

Section 11: TOXICOLOGICAL INFORMATION

ACUTE EXPOSURE

Oral Toxicity:	No data available
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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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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: 0	Fire: 1	Reactivity: 0
HMIS CODE	Health: 0	Fire: 1	Reactivity: 0

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