BUFFALO, NY 14211 USA Phone: 716.597.0214 Fax: 716.597.2017

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: Well•Worth EOA, 8020 11 oz.
Product Description: Additive
Intended Use: Motor Oil Additive

COMPANY IDENTIFICATION

Supplier: Well•Worth Products, Inc.
180 Dutton Avenue
Buffalo, NY 14211

Emergency Telephone: 1-800-890-7935 – Well•Worth Products, Inc.
Emergency Telephone: 1-800-424-9300 (24 hours) – Chemtrec USA

SECTION 2 HAZARDS IDENTIFICATION

This material is hazardous according to regulatory guidelines (see (M)SDS Section 15).

Hazard Classification

Health Hazards: Skin Corrosion/Irritation Category 2

Unknown toxicity

Acute toxicity, oral	0.0 %
Acute toxicity, dermal	0.0 %
Acute toxicity, inhalation, vapor	48.1 %
Acute toxicity, inhalation, dust or mist	48.1%

LABEL:

Pictogram:

Signal Word: Warning

Hazard Statements: Causes skin irritation

Precautionary Statement:

Prevention: Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

Response: IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Specific treatment (see this label). Take off contaminated clothing and wash before reuse.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: None identified

SECTION 3 COMPOSTION / INFORMATION INGREDIENTS

Chemical Name	CAS Number	Percent by Weight
Petroleum Distillates, Hydrotreated heavy paraffinic	54742-54-7	75 %
Zinc alkyldithiophosphate	84605-29-8	5 %
Olefin sulfide	Confidential	5 %
Calcium sulfonate	Confidential	5 %
Alkylated phenol	121158-58-5	.5 %

SECTION 4 FIRST AID MEASURES

Ingestion: Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting.

Inhalation: Remove exposed person to fresh air if adverse effects are observed.

Skin Contact: Take off contaminated clothing and wash before re-use. Wash skin thoroughly with soap and water. If skin irritation occurs, get medical attention. Launder contaminated clothing before reuse.

Eye contact: Flush thoroughly with water. If irritation occurs, get medical assistance. Remove contact lenses, if present and easy to do. Continue rinsing.
Most important symptoms/effects, acute and delayed

Symptoms: See section 11.
Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically

SECTION 5 FIRE FIGHTING MEASURES

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: CO_2, Dry chemical or Foam. Water can be used to cool and protect exposed material.

Unsuitable extinguishing media: Do no use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: When heated, hazardous gases may be released including; sulfur dioxide. A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. See section 10 for additional information.

Special protective equipment and precautions for firefighters

Special fire-fighting procedures: No data available

Special protective equipment for fire-fighters: Wear full protective fire gear including self-containing breathing apparatus operated in the positive pressure mode with full face piece, coat, pants, gloves and boots.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. See Section 8 of the SDS for Personal Protective Equipment.

Methods and material for containment and cleaning up: Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas.

Environmental Precautions: Avoid release to the environment. Do not contaminate water

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with skin. Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hand thoroughly after handling. Launder contaminated clothing before reuse. Avoid environmental contamination. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures. Use grounding and bonding connection when transferring material. In case of spills, beware of slippery floors and surfaces. Keep container closed when note in use and use with adequate ventilation.

Maximum Handling Temperature: 70 °C 158°F

Conditions for safe storage, including any incompatibilities: Store away from incompatible materials. Odorous and toxic fumes may form from the decomposition of this product if stored at temperatures in excess of 113 °F (45°C) for extended periods of time of if heat sources in excess of 250°F (121°C) are used.

Maximum Storage Temperature: 45 °C 113°F

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters:

Occupational Exposure Limits

Chemical Name	Type	Exposure Limit Values	Source
Mineral oil – Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (02 2012)
Mineral oil – Mist.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Mineral oil – Mist.	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Mineral oil – Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

Appropriate engineering controls: Material should be handled in enclosed vessels and equipment, in which case general (mechanical) room ventilation should be sufficient. Local exhaust ventilation should be used at points where dust, mist, vapors, or gases can escape into the room air.

Individual protection measures, such as personal protective equipment
General Information: Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Eye/face protection: Wear tight-fitting goggles or face shield.

Skin Protection

Hand Protection: Use nitrile or neoprene gloves. Use good industrial hygiene practices. In case of skin contact, wash hands and arms with soap and water.

Other: Wear apron or protective clothing in case of contact. Do not wear rings, watches or similar apparel that could entrap the material. Chemical resistant boots.

Respiratory Protection: Use respirator with an organic vapor cartridge if exposure limit is exceeded. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of respirator. Under normal use conditions, respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.

Hygiene measures: Observe good industrial hygiene practices. Avoid contact with skin. Was contaminated clothing before reuse. Wash hands before breaks and immediately after handling the product.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical State:	Liquid
Form:	Liquid
Color:	N/A
Odor:	N/A
Odor threshold:	N/A
pH:	N/A
Freezing point:	N/A
Boiling point:	N/A
Flash point:	329 °F (165 °C) (Pensky-Martens Closed Cup)
Evaporation rate:	N/A
Flammability (solid, gas):	N/A
Upper/lower limit on flammability or explosive limits	
Flammability limit – upper (%):	N/A
Flammability limit – lower (%):	N/A
Explosive limit – upper (%):	N/A
Explosive limit – lower (%):	N/A
Vapor pressure:	0.0205 PSI (76.67 °C 170.01 °F)
Vapor density:	N/A
Relative density:	0.956 – 0.986 60.1 °F (15.6 °C)
Solubility (ies)	
Solubility in water:	Insoluble in water
Solubility (other):	N/A
Partition coefficient (n-octanol/water):	N/A
Auto-ignition temperature:	N/A
Decomposition temperature:	N/A
Viscosity:	1200 °C | 40 °F
Other information	
Bulk density:	8.09 lb/gal 77 °F (25°C)

Pour point temperature: -10°C

SECTION 10 STABILITY AND REACTIVITY

REACTIVITY: No data available

STABILITY: Material is stable under normal conditions

CONDITIONS TO AVOID: Do not expose to excessive heat, ignition sources, or oxidizing materials. Excessive heat.

Incompatible Materials: Strong oxidizing agents. Halogens and halogenated compounds. Contact with acids.

POSSIBILITY OF HAZARDOUS REACTIONS: Will not occur

Hazardous Decomposition Products: Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, sulfur oxides, mercaptans, sulfides, including hydrogen sulfide and other products of incomplete combustion. Thermal decomposition may generate phosphorus oxides and other phosphorus containing compounds.

SECTION 11 TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Inhalation: N/A
Ingestion: N/A
Skin Contact: N/A
Eye Contact: N/A

Information on toxicological effects
Acute toxicity

Oral
Product: ATEmix > 10.000 mg/kg

Dermal
Product: Not classified for acute toxicity based on available data

Inhalation
Product: Not classified for acute toxicity based on available data

Skin Corrosion/Irritation:
Product: Classification: Irritating. Rabbit
Remarks: Causes skin irritation

Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.

Serious Eye Damage/Eye Irritation:
Product: Classification: Not irritating Rabbit.
Remarks: Not classified as a primary eye irritant.

Respiratory sensitization: No data available
Skin sensitization
Mineral Oil-Classification: Not a skin sensitizer. (Read across) Not a skin sensitizer.
Zinc alkyldithiophosphate-Classification: Not a skin sensitizer. (Literature) Not a skin sensitizer.
Olefin sulfide: Classification-Not a skin sensitizer. (Read across) Not a skin sensitizer.
Calcium sulfonate-Classification: Skin sensitizer (Read across)
Alkylated phenol-Classification: Not a skin sensitizer. (Literature) Not a skin sensitizer.

Specific Target Organ Toxicity-Signal Exposure:
Mineral oil- If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.
Alkylated phenol- May cause irritation to the mucous membranes and upper respiratory tract.

Aspiration Hazard:
Mineral Oil- Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death.

Chronic Effects
Carcinogenicity:
Product: This product contains mineral oils which are severely refined and not considered carcinogenic. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):
No carcinogenic components identified

Germ Cell Mutagenicity:
Olefin sulfide- This material has no exhibited mutagenic or genotoxic potential in laboratory tests.
Alkylated phenol- This material has not exhibited mutagenic or genotoxic potential in laboratory tests.

++ Aryl thiophosphate- This material has not exhibited mutagenic or genotoxic potential in laboratory tests.

Reproductive toxicity:
Alkylated phenol- Suspected of damaging fertility
++ Aryl thiophosphate- Suspected of damaging fertility. Repeated oral gavage dosing of laboratory animals with aryl thiophosphate in a reproductive/developmental toxicity screening study resulted in litter loss and decreases in number of implantation sites at high doses.

Specific Target Organ Toxicity- Repeated Exposure:
Alkylated phenol- This product contains para-dodecylphenol. Rats given high, repeated daily doses of para-dodecylphenol by oral intubation experienced effects on a number of organs including adrenal, thyroid, liver, ovary, testes, bone marrow and blood cell formation.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity
Fish

Mineral oil-	LC 50 (Fathead Minnow, 4 d): > 100 mg/l
Zinc alkyldithiophosphate-	LC 50 (Rainbow Trout, 4 d): 4.5 mg/l
	LC 50 (Sheepshead Minnow, 4 d): 46 mg/l
	NOEC (Rainbow Trout, 4 d): 1.8 mg/l
Olefin sulfide	LC 50 (Rainbow Trout, 4 d): 44.35 mg/l
	NOEC (Rainbow Trout, 4 d): 33.02 mg/l
Calcium sulfonate	LC 50 (Fathead Minnow, 4 d): 1,000 mg/l
	LC 50 (Sheepshead Minnow, 4 d): > 10,000 mg/l

Aquatic Invertebrates

Mineral oil	EC 50 (Water flea (Daphnia magna), 2 d): > 10,000 mg/l
	EC 50 (Water flea (Daphnia magna), 21 d): > 10 mg/l
	NOEC (Water flea (Daphnia magna), 21 d): > 10 mg/l
Zinc alkyldithiophosphate	EC 50 (Water flea (Daphnia magna), 2 d): 23 mg/l
	NOEC (Water flea (Daphnia magna), 2 d): 10 mg/l
	EC 50 (Water flea (Daphnia magna), 21 d): > 0.8 mg/l
	NOEC (Water flea (Daphnia magna), 21 d): 0.4 mg/l
Olefin sulfide	EC 50 (Water flea (Daphnia magna), 2 d): 11 mg/l
	NOEC (Water flea (Daphnia magna), 2 d): 1.8 mg/l
	NOEC (Water flea (Daphnia magna), 21 d): 3.2 mg/l
Calcium sulfonate	EC 50 (Water flea (Daphnia magna), 2 d): > 1,000 mg/l
Alkylated phenol	EC 50 (Water flea (Daphnia magna), 2 d): 0.037 mg/l
	EC 50 (Shrimp (Mysidopsis Bahia), 4 d): > 0.58 mg/l

	EC 50 (Water flea (Daphnia magna), 21 d): 0.0079 mg/l NOEC (Water flea (Daphnia magna), 21 d): 0.0037 mg/l

Toxicity to Aquatic Plants

Mineral oil	EC 50 (Green algae (Scenedesmus quadricauda), 3 Days): > 100 mg/l
Zinc alkyldithiophosphate	EC 50 (Green algae (Scenedesmus quadricauda), 3 d): 21 mg/l NOEC (Green algae (Scenedesmus quadricauda), 3 d): 10 mg/l
Olefin sulfide	EC 50 (Green algae (Selenastrum capricornutum), 3 d): 92 mg/l
Calcium sulfonate	EC 50 (Green algae (Selenastrum capricornutum), 4 d): > 1,000 mg/l
Alkylated phenol	EC 50 (Green algae (Scenedesmus quadricauda), 2 d): 0.36 mg/l

Toxicity to soil dwelling organisms
No data available

Sediment Toxicity
No data available

Toxicity to Terrestrial Plants
No data available

Toxicity to Above-Ground Organisms
No data available

Toxicity to microorganisms
Zinc alkyldithiophosphate EC 50 (Sludge, 0.1 d): > 10,000 mg/l

Olefin sulfide EC 50 (Sludge, 0.3 d): > 10,000 mg/l
NOEC (Sludge, 0.3 d): > 1,000 mg/l

Calcium sulfonate EC 50 (Sludge, 0.1 d): > 10,000 mg/l

Alkylated phenol EC 50 (Sludge, 0.1 d): > 1,000 mg/l

Persistence and Degradability
Biodegradation

Mineral oil	OECD TG 301 B, 31 %, 28 d, Not readily degradable.
Zinc alkyldithiophosphate	OECD TG 301 B, 1.5 %, 28 d, Not readily degradable.
Olefin sulfide	OECD TG 301 B, 16 %, 28 d, Not readily degradable.
Calcium sulfonate	OECD TG 301 D, 8 %, 28 d, Not readily degradable.

Alkylated phenol	Miscellaneous, 10 %, 56 d, Not readily degradable. OECD TG 301 B, 25 %, 28 d, Not readily degradable.

Bioaccumulative Potential
Bioconcentration Factor (BCF)

Alkylated phenol	Bioconcentration Factor (BCF): 794.33 (Measured)

Partition Coefficient n-octanol / water (log Kow)

Zinc alkyldithiophosphate	Log Kow: 0.56 (Measured)
Olefin sulfide	Log Kow: 3.7 - 7.8
Calcium sulfonate	Log Kow: 10.88 (Read across)
Alkylated phenol	Log Kow: 7.14 (Measured)

Mobility:
No data available

Other Adverse Effects: No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal instructions: Treatment, storage, transportation, and disposal must be in accordance
with applicable Federal, State/Provincial, and Local regulations.
Dispose of packaging or containers in accordance with local, regional, national and international regulations. Empty container contains product residue which may exhibit hazards of product.

Contaminated Packaging: Container packaging may exhibit hazards.

SECTION 14 TRANSPORTATION INFORMATION

DOT
Not regulated.

IMDG
Not regulated.

IATA
Not regulated.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
MARPOL ANNEX II: Not Determined
USCG Compatibility: 34 ESTERS

SECTION 15 REGULATORY INFORMATION

US Federal Regulations
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate
(Acute) Health
Hazards

SARA 302 Extremely Hazardous Substance
SARA 304 Emergency Release Notification
SARA 311/312 Hazardous Chemical
SARA 313 (TRI Reporting)

This product may contain chemical(s) regulated under the Superfund Amendments and Reauthorization Act (SARA). For additional information please contact Beacon Lubricants, Inc.

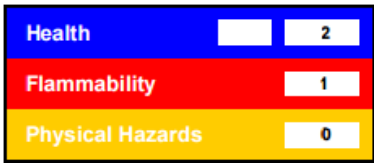
US State Regulations
US. California Proposition 65
This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.
++ Benzene 7.00PPB

Inventory Status
Australia (AICS)
All components are in compliance with chemical notification requirements in Australia.
Canada (DSL/NDSL)
All components are in compliance with the Canadian Environmental Protection Act and are present on the
Domestic Substances List.
China (IECSC)
All components of this product are listed on the Inventory of Existing Chemical Substances in China.
European Union (REACh)
To obtain information on the REACH compliance status of this product, please visit Lubrizol.com/REACH, or
e-mail us at REACH_MSDS_INQUIRIES@Lubrizol.com
Japan (ENCS)
All components are in compliance with the Chemical Substances Control Law of Japan.
Korea (ECL)

All components are in compliance in Korea.
New Zealand (NZIoC)
All components are in compliance with chemical notification requirements in New Zealand.
Philippines (PICCS)
All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear
Wastes Control Act of 1990 (R.A. 6969).
Switzerland (SWISS)
All components are in compliance with the Environmentally Hazardous Substances Ordinance in
Switzerland.
Version: 1.0
Revision Date: 04/05/2015
SDS_US - LUBRIZOL® 4998 11/11
Taiwan (TCSCA)
All components of this product are listed on the Taiwan inventory.
United States (TSCA)
All components of this material are on the US TSCA Inventory.
The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.

SECTION 16 OTHER INFORMATION

HMIS HAZARD ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:
Updates made in accordance with implementation of GHS requirements.

Disclaimer:
English: To the best of our knowledge, this MSDS conforms to the requirements of US OSHA 29 CFR 1910.1200. The information contained herein is based on data considered accurate to the best of our knowledge at the date of its publication. However, no warranty is expressed or implied regarding the accuracy, completeness, or adequacy of the information contained herein. The manufacturer and/or supplier shall not be held liable (regardless of fault) to the user or third persons, or anyone for any direct, indirect, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of such information. Each user must review this MSDS in the context of how the product will be handled and used in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company so we can attempt to obtain additional information from our suppliers.

Please carefully read and understand all labels before using product.