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**MATERIAL SAFETY DATA SHEET FOR D-PLUS**

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**1- PRODUCT IDENTIFICATION**

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PRODUCT NAME: D-PLUS

DESCRIPTION: Adjuvant (Carrier)

CHEMICAL NAME: Mineral oil

DISTRIBUTOR: COAST SOUTHWEST  
505 SOUTH MELROSE STREET  
PLACENTIA, CA 92780

EMERGENCY PHONE: CHEMTREC 800-424-9300

**2- COMPOSITION / INGREDIENTS INFORMATION**

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COMPONENTS	CAS#	OSHA PEL	ACGIH TLV	OTHER	WT%
1. White Mineral Oil (Petroleum)	8042-47-5	ND	ND	NONE	100%
2. DI ALPHA TOCOPHEROL (VITAMIN E) STABILIZER	59-02-9	ND	ND	NONE	<0.1%

**3- HAZARDS IDENTIFICATION**

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Potential Acute Health Effects:

Slightly hazardous in case of eye contact (irritant), of ingestion, Non-irritant for skin, Non-hazardous in case of inhalation.

Potential Chronic Health Effects:

Repeated and prolonged exposure is not known to aggravate medical condition.

**4- PHYSICAL AND CHEMICAL PROPERTIES**

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PHYSICAL STATE: Liquid (Transparent water-white liquid)

COLOR: Clear

ODOUR: Odorless

SPECIFIC GRAVITY: 0.85 @ 15.6°C (Water= 1) [7.10 lbs/gallon]

VAPOR PRESSURE: <0.1kPa (@20°C)

BOILING POINT: 310° C (590° F)

SOLUBILITY IN WATER: Insoluble

pH: Neutral

**VOLATILES:** Not Available

**STORAGE STABILITY:** STABLE AT ROOM TEMPERATURE

**VISCOSITY (ASTM D2161) @100° F** 90 SUS

#### 5- FIRE AND EXPLOSION HAZARD DATA

**Flammability of the product:** May be combustible at high temperature [NFPA CLASS III B]

**Flash Point: Cleveland Open Cup** 200°C (392°F)

**EXTINGUISHING MEDIA:** Dry chemical, foam, CO<sub>2</sub> and other standard extinguishing media for oil.

**FOR FIRE FIGHTING:** FIRE FIGHTERS SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. Combustible material. Use air supplied gear for fighting indoors. Cool fire exposed containers with water.

**FLAMMABLE PROPERTIES AND HAZARDS** Material can burn but will not readily ignite

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon Dioxide, Carbon Monoxide, smole, fumes, and unburned hydrocarbons.

#### 6- REACTIVITY DATA

**STABILITY:** STABLE

**CONDITIONS TO AVOID:** Excessive heat and incompatibles

**INCOMPATIBLES:** Strong oxidizers

**POLYMERIZATION:** WILL NOT OCCUR

**DECOMPOSITION:** Combustion produces CO<sub>2</sub>, CO and thick smoke, may be irritating and toxic

#### 7- ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Absorb with an inert material and put the spilled material in an appropriate waste disposal

**LARGE SPILL:** Absorb with an inert material and put spilled material in an appropriate waste disposal. Finish Cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system, Be careful that the product is not present at a concentration above TLV. Check TLV on the MSDS and with local authorities.

#### 8- PROTECTIVE EQUIPMENT

**VENTILATION:** Use adequate general local exhaust ventilation to keep vapor or mist as low as possible.

**RESPIRATORY PROTECTION:** None required when adequate ventilation exists. If airborne concentration is high, use appropriate respirator or dust mast.

**EYE/ SKIN PROTECTION:** Safety goggles.

**ENGINEERING CONTROLS:** Provide Exhaust ventilation or other engineering controls to keep airborne concentration of vapor below the respective threshold limit value. Ensure that eye wash stations and safety showers are proximal to

the workstation location.

**PERSONAL PROTECTION IN CASE OF LARGE SPILLS:** Splash goggles. Full suit, boots, gloves. Suggested protective clothing might not be sufficient. Consult a specialist before handling this product.

**EXPOSURE LIMITS:** TWA: 5STEL: 10 (mg/m<sup>3</sup>) as oil mist

Consult local authorities for acceptable exposure limits.

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#### 9- STORAGE AND HANDLING PRECAUTIONS

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**PRECAUTIONS:** Keep away from heat. Keep away from source of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe/ fumes/vapor/spray. Keep away from incompatible such as oxidizing agents.

**STORAGE:** Keep container tightly closed. Keep container in a cool, well ventilated area. Do not store above 120°F or in direct sunlight for extended periods of time.

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#### 10- TRANSPORTATION DATA

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**DOT SHIPPING NAME:** Mineral Oil

**DOT HAZARD CLASS:** No USA DOT classification for this product. Not a DOT controlled material

**UN NUMBER:** None

**DOT LABEL:** None

**DOT PLACARD:** None

**ADDITIONAL TRANSPORT INFORMATION:** Not a DOT Marine pollutant as per CFR 171.8

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#### 11- DISPOSAL DATA

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

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#### 12- TOXICOLOGICAL AND ECOLOGICAL INFORMATION

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Oral LD<sub>50</sub> (rat): >5000 mg/kg

Dermal LC50 (rabbit): >2000 mg/kg

Draize Eye, Acute (rabbit): non-irritating

Draize Dermal, Acute (rabbit): Non-irritating

Buehler, Acute (guinea pig): Non-sensitizing

28 Day Dermal sub-chronic(rabbit): Non-irritating

101 Week Dermal, Chronic(mouse): No skin tumors at site of application

Carcinogenicity: None

Reproductive Effects: None expected

Chronic Effects: Eye, slight irritation

Mutagenicity: Modified Ames Assay: Negative (Salmonella typhimurium)  
In-vitro Lymphoma Assay: Negative or no toxicity (mouse)

BODS and COD: Not Available

Products for Biodegradation: Possibly hazardous short term degradation products are not likely. However long term degradation products may arise

Toxicity of Products of Biodegradation: Not Available

Special Remarks on the Products of Biodegradation: Not Available

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**13- REGULATORY INFORMATION**

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US: TSCA 8(b) inventory: Mineral Oil

EC: This material is on the European Inventory of Existing Commercial Chemical Substances

HMIS (USA):

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: a

National Fire Protection Association (USA)

Health: 0

Flammability: 1

Reactivity: 0

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**14- OTHER INFORMATION**

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This product does not contain any chemicals subject to the reporting requirements of 40 CFR 355, 370 and 372 (SARA Section 313)

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**15- LABEL DATA**

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LABEL NAME:	D-PLUS
LABEL ADDRESS:	AGRO LOGISTIC SYSTEMS, INC. 555 W. LAMBERT ROAD, UNIT-N BREA, CA 92821 USA
LABEL TELEPHONE:	714-990-9220
LABEL FAX:	714-990-9222
LABEL e-mail:	info@agrologistic.com

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