

# SAFETY DATA SHEET

DDP SPECIALTY ELECTRONIC MATERIALS

US 9, LLC

#### Product name: MOLYKOTE<sup>®</sup> M Gear Oil Additive

Issue Date: 10/18/2024 Print Date: 10/23/2024

DDP SPECIALTY ELECTRONIC MATERIALS US 9, LLC encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

# **1. IDENTIFICATION**

Product name: MOLYKOTE® M Gear Oil Additive

Recommended use of the chemical and restrictions on use Identified uses: Lubricants and lubricant additives

COMPANY IDENTIFICATION DDP SPECIALTY ELECTRONIC MATERIALS US 9, LLC 974 Centre Road Wilmington DE 19805 UNITED STATES

**Customer Information Number:** 

833-338-7668 SDSQuestion-NA@dupont.com

#### EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: 1-800-424-9300 Local Emergency Contact: 800-424-9300

# 2. HAZARDS IDENTIFICATION

#### Hazard classification

GHS classification in accordance with 29 CFR 1910.1200 Not a hazardous substance or mixture.

#### Other hazards

No data available

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical nature:** Inorganic compounds in mineral oil This product is a mixture.

Component

CASRN

Concentration

Solvent dewaxed heavy paraffinic distillates	64742-65-0	>= 77.0 - <= 80.0 %
Distillates, petroleum, solvent-refined heavy paraffinic	64741-88-4	>= 6.0 - <= 7.0 %
Petroleum Distillates, Hydrotreated, Heavy Paraffinic	64742-54-7	>= 6.0 - <= 7.0 %
Molybdenum disulfide	1317-33-5	>= 4.0 - <= 5.0 %
Distillates, petroleum, hydrotreated light paraffinic	64742-55-8	>= 2.8 - <= 3.4 %
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	>= 0.42 - <= 0.51 %

# 4. FIRST AID MEASURES

### Description of first aid measures

#### General advice:

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air; if effects occur, consult a physician.

**Skin contact:** Wash off with plenty of water. Suitable emergency safety shower facility should be available in work area.

**Eye contact:** Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Ingestion: No emergency medical treatment necessary.

#### Most important symptoms and effects, both acute and delayed:

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

#### Indication of any immediate medical attention and special treatment needed

**Notes to physician:** No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Skin contact may aggravate preexisting dermatitis.

### 5. FIREFIGHTING MEASURES

**Suitable extinguishing media:** Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical

Unsuitable extinguishing media: None known.

#### Special hazards arising from the substance or mixture Hazardous combustion products: Sulphur oxides

**Unusual Fire and Explosion Hazards:** Exposure to combustion products may be a hazard to health.

#### Advice for firefighters

**Fire Fighting Procedures:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

# 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Follow safe handling advice and personal protective equipment recommendations.

**Environmental precautions:** Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

**Methods and materials for containment and cleaning up:** Soak up with inert absorbent material. Clean up remaining materials from spill with suitable absorbant. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

See sections: 7, 8, 11, 12 and 13.

# 7. HANDLING AND STORAGE

**Precautions for safe handling:** Take care to prevent spills, waste and minimize release to the environment. Handle in accordance with good industrial hygiene and safety practice. Use only with adequate ventilation. See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

**Conditions for safe storage:** Keep in properly labelled containers. Store in accordance with the particular national regulations.

Do not store with the following product types: Strong oxidizing agents. Unsuitable materials for containers: None known.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Component	Regulation	Type of listing	Value
Solvent dewaxed heavy	ACGIH	TWA Inhalable	5 mg/m3
paraffinic distillates		particulate matter	
	Further information: A4: Not		
	CAL PEL	PEL particulate	5 mg/m3
	Further information: (I): As s		
	OSHA Z-1	TWA Mist	5 mg/m3
	NIOSH REL	TWA Mist	5 mg/m3
	NIOSH REL	ST Mist	10 mg/m3
Distillates, petroleum,	ACGIH	TWA Inhalable	5 mg/m3
solvent-refined heavy paraffinic		particulate matter	
•	Further information: A4: Not	classifiable as a human car	cinogen
	CAL PEL	PEL particulate	5 mg/m3
	Further information: (I): As s		
	NIOSH REL	TWA Mist	5 mg/m3
	NIOSH REL	ST Mist	10 mg/m3
Petroleum Distillates,	ACGIH	TWA Inhalable	5 mg/m3
Hydrotreated, Heavy Paraffinic		particulate matter	<b>3</b>
	Further information: A4: Not	classifiable as a human car	cinogen
	CAL PEL	PEL particulate	5 mg/m3
	Further information: (I): As s	ampled by method that does	
	NIOSH REL	TWA Mist	5 mg/m3
	NIOSH REL	ST Mist	10 mg/m3
Molybdenum disulfide	OSHA Z-1	TWA total dust	15 mg/m3 ,
2			Molybdenum
	ACGIH	TWA Inhalable	10 mg/m3 ,
		particulate matter	Molybdenum
	ACGIH	TWA Respirable	3 mg/m3 ,
		particulate matter	Molybdenum
	CAL PEL	PEL Total dust	10 mg/m3 ,
	OALTEL		Molybdenum
	CAL PEL	DEL respirable dust	•
	CAL PEL	PEL respirable dust	3 mg/m3,
	Further information: (n): The this limit are determined fror characteristics: Aerodynam Percent Passing Selector 0	n the fraction passing a size ic Diameter in Micrometers (	unit density sphere)
	1 3 5 7	97 2 74 4 30 6 9 8	
	10		E
Distillates, petroleum,	ACGIH	TWA Inhalable	5 mg/m3
hydrotreated light paraffinic		particulate matter	
	Further information: A4: Not		
	CAL PEL	PEL particulate	5 mg/m3

	Further information: (I): As sampled by method that does not collect vapor.				
Distillates (petroleum),	ACGIH	ACGIH TWA Inhalable 5 mg/m3			
solvent-refined light		particulate matter			
paraffinic					
	Further information: A4: Not classifiable as a human carcinogen				
	CAL PEL	PEL particulate	5 mg/m3		
	Further information: (I): As sampled by method that does not collect vapor.				
	NIOSH REL	TWA Mist	5 mg/m3		
	NIOSH REL	ST Mist	10 mg/m3		

#### **Exposure controls**

**Engineering measures:** Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

#### Individual protection measures

Eye/face protection: Use safety glasses (with side shields).

#### Skin protection

Hand protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Chlorinated polyethylene. Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl alcohol ("PVA"). Viton. Examples of acceptable glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Other protection:** Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

**Respiratory protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.

The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Physical state	
Color	
Odor	
Odor Threshold	
рН	
Melting point/ range	
Freezing point	

liquid dark grey slight No data available No data available No data available No data available

Boiling point (760 mmHg)	> 35 °C (> 95 °F)
Flash point	closed cup 200 °C (392 °F)
Evaporation Rate (Butyl Acetate = 1)	No data available
Flammability (solid, gas)	Not applicable
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapor Pressure	No data available
Relative Vapor Density (air = 1)	No data available
Relative Density (water = 1)	0.91
Water solubility	No data available
Partition coefficient: n- octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Kinematic Viscosity	90 cSt at 25 °C (77 °F)
Explosive properties	Not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.
Molecular weight	No data available
Particle size	Not applicable

NOTE: The physical data presented above are typical values and should not be construed as a specification.

# **10. STABILITY AND REACTIVITY**

Reactivity: Not classified as a reactivity hazard.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Can react with strong oxidizing agents.

Conditions to avoid: None known.

Incompatible materials: Oxidizing agents

Hazardous decomposition products No hazardous decomposition products are known.

# 11. TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data is available.

#### Acute toxicity

#### Acute oral toxicity

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

As product: Single dose oral LD50 has not been determined.

Based on information for component(s): LD50, Rat, > 5,000 mg/kg Estimated.

#### Acute dermal toxicity

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

As product: The dermal LD50 has not been determined.

Based on information for component(s): LD50, Rabbit, > 2,000 mg/kg Estimated.

#### Acute inhalation toxicity

At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous. As product: The LC50 has not been determined.

#### Skin corrosion/irritation

Brief contact may cause slight skin irritation with local redness. Prolonged contact may cause moderate skin irritation with local redness. May cause drying and flaking of the skin.

#### Serious eye damage/eye irritation

May cause slight eye irritation. Corneal injury is unlikely.

#### Sensitization

For skin sensitization: Contains component(s) which did not cause allergic skin sensitization in guinea pigs.

For respiratory sensitization: No relevant data found.

#### Specific Target Organ Systemic Toxicity (Single Exposure)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

#### Specific Target Organ Systemic Toxicity (Repeated Exposure)

Contains component(s) which have been reported to cause effects on the following organs in animals: Adrenal gland. Bone marrow. Liver. Thymus. Stomach. lung

#### Carcinogenicity

Contains component(s) which did not cause cancer in laboratory animals.

#### Teratogenicity

Contains component(s) which, in laboratory animals, have been toxic to the fetus only at doses toxic to the mother.

#### **Reproductive toxicity**

Contains component(s) which did not interfere with reproduction in animal studies.

#### Mutagenicity

For the component(s) tested: In vitro genetic toxicity studies were predominantly negative. Animal genetic toxicity studies were predominantly negative.

#### **Aspiration Hazard**

Based on available information, aspiration hazard could not be determined.

#### COMPONENTS INFLUENCING TOXICOLOGY:

#### Solvent dewaxed heavy paraffinic distillates

#### Acute inhalation toxicity LC50, Rat, male and female, 4 Hour, dust/mist, > 5 mg/l No deaths occurred at this concentration.

### Distillates, petroleum, solvent-refined heavy paraffinic

Acute inhalation toxicity The LC50 has not been determined.

#### Petroleum Distillates, Hydrotreated, Heavy Paraffinic

Acute inhalation toxicity For this family of materials: LC50, Rat, 4 Hour, vapour, 2.18 mg/l

#### Molybdenum disulfide

**Acute inhalation toxicity** LC50, Rat, 4 Hour, dust/mist, > 2.82 mg/l No deaths occurred at this concentration.

#### Distillates, petroleum, hydrotreated light paraffinic

Acute inhalation toxicity LC50, Rat, 4 Hour, dust/mist, > 4 mg/l

#### Distillates (petroleum), solvent-refined light paraffinic

Acute inhalation toxicity LC50, Rat, male and female, 4 Hour, dust/mist, > 5.53 mg/l

Carcinogenicity		
Component	List	Classification
Distillates, petroleum, solvent-	IARC	Group 1: Carcinogenic to humans
refined heavy paraffinic Distillates (petroleum), solvent- refined light paraffinic	IARC	Group 1: Carcinogenic to humans
· · · · · · · · · · · · · · · · · · ·	US NTP	Known to be human carcinogen

## **12. ECOLOGICAL INFORMATION**

Ecotoxicological information appears in this section when such data is available.

#### Toxicity

#### Solvent dewaxed heavy paraffinic distillates

#### Acute toxicity to fish

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested). LL50, Pimephales promelas (fathead minnow), static test, 96 Hour, > 100 mg/l

#### Acute toxicity to aquatic invertebrates

EL50, Daphnia magna (Water flea), static test, 48 Hour, > 10,000 mg/l

#### Acute toxicity to algae/aquatic plants

NOEC, Pseudokirchneriella subcapitata (green algae), static test, 72 Hour, Growth rate, > 100 mg/l

**Toxicity to bacteria** Based on data from similar materials NOEC, 10 min, > 1.93 mg/l, DIN 38 412 Part 8

#### Chronic toxicity to aquatic invertebrates

Based on data from similar materials NOEC, Daphnia magna (Water flea), 21 d, 10 mg/l

#### Distillates, petroleum, solvent-refined heavy paraffinic

#### Acute toxicity to fish

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested). LC50, Oncorhynchus mykiss (rainbow trout), 96 Hour, > 1,000 mg/l

#### Acute toxicity to aquatic invertebrates

LC50, Daphnia magna (Water flea), 48 Hour, > 1,000 mg/l

#### Acute toxicity to algae/aquatic plants

EC50, Pseudokirchneriella subcapitata (green algae), 96 Hour, Biomass, > 1,000 mg/l

#### Toxicity to bacteria

Based on data from similar materials NOEC, 10 min, > 1.93 mg/l, DIN 38 412 Part 8

#### Chronic toxicity to fish

NOEC, Pimephales promelas (fathead minnow), 7 d, survival, > 5,000 mg/l

#### Chronic toxicity to aquatic invertebrates

NOEC, Daphnia magna (Water flea), 21 d, number of offspring, > 1,000 mg/l

#### Petroleum Distillates, Hydrotreated, Heavy Paraffinic

Acute toxicity to fish

Typical for this family of materials. Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested). For this family of materials: LC50, Oncorhynchus mykiss (rainbow trout), semi-static test, 96 Hour, > 100 mg/l

#### Acute toxicity to aquatic invertebrates

For this family of materials: EC50, Daphnia magna (Water flea), semi-static test, 48 Hour, > 100 mg/l

#### Acute toxicity to algae/aquatic plants

NOELR, Pseudokirchneriella subcapitata (green algae), 72 Hour, >100, OECD Test Guideline 201

ErC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, >100, OECD Test Guideline 201

#### Toxicity to bacteria

Based on data from similar materials NOEC, 10 min, > 1.93 mg/l, DIN 38 412 Part 8

#### Chronic toxicity to aquatic invertebrates

NOEC, Daphnia magna (Water flea), semi-static test, 21 d, number of offspring, 10 mg/l

#### Molybdenum disulfide

#### Acute toxicity to fish

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested). For similar material(s): LC50, Fish, 96 Hour, > 100 mg/l

#### Acute toxicity to aquatic invertebrates

Based on data from similar materials EC50, Daphnia magna (Water flea), 48 Hour, > 100 mg/l

#### Acute toxicity to algae/aquatic plants

Based on data from similar materials ErC50, algae, 72 Hour, Growth rate, > 100 mg/l

#### **Toxicity to bacteria**

EC50, 30 Hour, Respiration rates., > 100 mg/l

#### Chronic toxicity to fish

Based on data from similar materials NOEC, Fish, 34 d, > 10 mg/l

#### Chronic toxicity to aquatic invertebrates

Based on data from similar materials NOEC, Daphnia magna, 21 d, > 10 mg/l

#### Distillates, petroleum, hydrotreated light paraffinic

#### Acute toxicity to fish

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested). LC50, Pimephales promelas (fathead minnow), 96 Hour, > 100 mg/l

#### Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), 48 Hour, > 100 mg/l

#### Acute toxicity to algae/aquatic plants

EC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, > 100 mg/l

#### Chronic toxicity to aquatic invertebrates

NOEC, Daphnia magna (Water flea), 21 d, 10 mg/l, Test substance: Water Accommodated Fraction

#### Distillates (petroleum), solvent-refined light paraffinic

Acute toxicity to fish

Typical for this family of materials. Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested). For this family of materials: LC50, Oncorhynchus mykiss (rainbow trout), semi-static test, 96 Hour, > 100 mg/l

#### Acute toxicity to aquatic invertebrates

For this family of materials: EC50, Daphnia magna (Water flea), semi-static test, 48 Hour, > 100 mg/l

#### Persistence and degradability

#### Solvent dewaxed heavy paraffinic distillates

Biodegradability: Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.
10-day Window: Fail
Biodegradation: 2 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

#### Distillates, petroleum, solvent-refined heavy paraffinic

Biodegradability: Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability. Material is inherently biodegradable (reaches > 20% biodegradation in OECD test(s) for inherent biodegradability).
10-day Window: Fail
Biodegradation: 6 %
Exposure time: 28 d
Method: OECD Test Guideline 301B or Equivalent

#### Petroleum Distillates, Hydrotreated, Heavy Paraffinic

**Biodegradability:** For this family of materials: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions. 10-day Window: Fail **Biodegradation:** 1.5 - 29 %

### Exposure time: 28 d

Method: OECD Test Guideline 301B or Equivalent

#### Molybdenum disulfide

**Biodegradability:** Biodegradability is not applicable to inorganic substances.

#### Distillates, petroleum, hydrotreated light paraffinic

**Biodegradability:** Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions. 10-day Window: Fail **Biodegradation:** 31 % **Exposure time:** 28 d **Method:** OECD Test Guideline 301F or Equivalent

#### Distillates (petroleum), solvent-refined light paraffinic

Biodegradability: For this family of materials: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.
10-day Window: Fail
Biodegradation: 1.5 - 29 %
Exposure time: 28 d
Method: OECD Test Guideline 301B or Equivalent

**Bioaccumulative potential** 

#### Solvent dewaxed heavy paraffinic distillates

**Bioaccumulation:** Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7).

Partition coefficient: n-octanol/water(log Pow): 3.9 - 6 Estimated.

#### Distillates, petroleum, solvent-refined heavy paraffinic

**Bioaccumulation:** Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7).

Partition coefficient: n-octanol/water(log Pow): 3.9 - 6 Estimated.

#### Petroleum Distillates, Hydrotreated, Heavy Paraffinic

Partition coefficient: n-octanol/water(log Pow): 1.99 - 18.02

#### Molybdenum disulfide

**Bioaccumulation:** Partitioning from water to n-octanol is not applicable.

#### Distillates, petroleum, hydrotreated light paraffinic

Partition coefficient: n-octanol/water(log Pow): 1.99 - 18.02 at 20 °C

#### Distillates (petroleum), solvent-refined light paraffinic

**Bioaccumulation:** For this family of materials: Bioconcentration potential is low (BCF less than 100 or log Pow greater than 7).

#### Mobility in soil

- Solvent dewaxed heavy paraffinic distillates No relevant data found.
- Distillates, petroleum, solvent-refined heavy paraffinic No relevant data found.

#### Molybdenum disulfide

No relevant data found.

#### Distillates (petroleum), solvent-refined light paraffinic

No relevant data found.

# 13. DISPOSAL CONSIDERATIONS

**Disposal methods:** DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device. For additional information, refer to: Handling & Storage Information, MSDS Section 7 Stability & Reactivity Information, MSDS Section 10 Regulatory Information, MSDS Section 15

**Treatment and disposal methods of used packaging:** Empty containers should be recycled or otherwise disposed of by an approved waste management facility. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. Do not re-use containers for any purpose.

# **14. TRANSPORT INFORMATION**

DOT

Not regulated for transport

Classification for SEA transport (IMO-IMDG):

Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code Not regulated for transport Consult IMO regulations before transporting ocean bulk

Classification for AIR transport (IATA/ICAO):

Not regulated for transport

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

# **15. REGULATORY INFORMATION**

# Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312 No SARA Hazards

# Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### United States TSCA Inventory (TSCA)

All components of this product are in compliance with the Active inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

# **16. OTHER INFORMATION**

#### Hazard Rating System

Ν	F	Ρ	A	١	

	Health	Flammability	Instability
	0	1	0
HMIS			

Health	Flammability	Physical Hazard
0/	1	0

#### Revision

Identification Number: 1156373 / A776 / Issue Date: 10/18/2024 / Version: 5.0 Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

#### Legend

ACGIH	USA. ACGIH Threshold Limit Values (TLV)
CAL PEL	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
NIOSH REL	USA. NIOSH Recommended Exposure Limits
OSHA Z-1	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air
	Contaminants
PEL	Permissible exposure limit
ST	STEL - 15-minute TWA exposure that should not be exceeded at any time during
	a workday
TWA	8-hour time weighted average

#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials: bw - Body weight: CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada): ECx - Concentration associated with x% response: EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods: IMO -International Maritime Organization: ISHL - Industrial Safety and Health Law (Japan): ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA -Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA -Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

#### Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

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