

# **SAFETY DATA SHEET**

# DDP SPECIALTY ELECTRONIC MATERIALS US 9, LLC

Product name: MOLYKOTE® Silicone Brake Fluid Issue Date: 03/20/2023

Print Date: 06/19/2023

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® Silicone Brake Fluid

Recommended use of the chemical and restrictions on use

Identified uses: Hydraulic fluids and 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 Carcinogenicity - Category 2 Reproductive toxicity - Category 2

Label elements Hazard pictograms



Signal word: WARNING!

#### **Hazards**

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

### **Precautionary statements**

#### Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### Response

IF exposed or concerned: Get medical advice/ attention.

#### Storage

Store locked up.

### Disposal

Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards

No data available

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# **Chemical nature:** Silicone This product is a mixture.

Component	CASRN	Concentration
Tributyl phosphate	126-73-8	>= 1.7 - <= 2.3 %
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	>= 0.14 - <= 0.2 %

# 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. Get medical attention immediately if irritation develops and persists.

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**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:** If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

### 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.

# 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: Carbon oxides Silicon oxides Oxides of phosphorus

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

# Advice for firefighters

**Fire Fighting Procedures:** Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

**Special protective equipment for firefighters:** In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

# 6. ACCIDENTAL RELEASE MEASURES

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

**Environmental precautions:** Do not release the product to the aquatic environment above defined regulatory levels. 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.

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**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:** Do not get on skin or clothing. Avoid inhalation of vapour or mist. Do not swallow. Avoid contact with eyes. 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.

# Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice. Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

**Conditions for safe storage:** Keep in properly labelled containers. Store locked up. 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	
Tributyl phosphate	ACGIH	TWA Inhalable	5 mg/m3	
		fraction and vapor	_	
	Further information: A3: Co humans	Further information: A3: Confirmed animal carcinogen with unknown relevance to humans		
	OSHA Z-1	TWA	5 mg/m3	
	CAL PEL	PEL	2.5 mg/m3 0.2 ppm	

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen		Permissible concentration	Basis
Tributyl phosphate	126-73-8	Acetylcholin esterase activity	In red blood cells	End of shift	70 % of an individual's baseline	ACGIH BEI

### **Exposure controls**

**Engineering controls:** 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.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

### Individual protection measures

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

Skin protection

**Hand protection:** Use gloves chemically resistant to this material. Use gloves with insulation for thermal protection, when needed. 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.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

Physical state liquid
Color purple
Odor slight

Odor Threshold

pH

No data available

No data available

Melting point/range

No data available

Flash point closed cup >101.1 °C (214.0 °F)

Evaporation Rate (Butyl Acetate No data available

= 1)

Flammability (solid, gas)

Lower explosion limit

Upper explosion limit

Vapor Pressure

Relative Vapor Density (air = 1)

Not applicable

No data available

No data available

Relative Density (water = 1) 0.95

Water solubility No data available

Product name: MOLYKOTE® Silicone Brake Fluid

Partition coefficient: n-

No data available

octanol/water

Auto-ignition temperatureNo data availableDecomposition temperatureNo data available

Kinematic Viscosity 20 cSt at 25 °C (77 °F)

Explosive properties Not explosive

**Oxidizing properties** The substance or mixture is not classified as oxidizing.

Liquid Density 0.95 g/cm<sup>3</sup>

Molecular weightNo data availableParticle sizeNot 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: Formaldehyde.

### 11. TOXICOLOGICAL INFORMATION

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

### **Acute toxicity**

# Acute oral toxicity

Product test data not available. Refer to component data.

### **Acute dermal toxicity**

Product test data not available. Refer to component data.

### Acute inhalation toxicity

Product test data not available. Refer to component data.

# Skin corrosion/irritation

Product test data not available. Refer to component data.

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## Serious eye damage/eye irritation

Product test data not available. Refer to component data.

#### Sensitization

Product test data not available. Refer to component data.

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

Product test data not available. Refer to component data.

# Specific Target Organ Systemic Toxicity (Repeated Exposure)

Product test data not available. Refer to component data.

## Carcinogenicity

Product test data not available. Refer to component data.

### **Teratogenicity**

Product test data not available. Refer to component data.

### Reproductive toxicity

Product test data not available. Refer to component data.

### Mutagenicity

Product test data not available. Refer to component data.

# **Aspiration Hazard**

Product test data not available. Refer to component data.

#### COMPONENTS INFLUENCING TOXICOLOGY:

# **Tributyl phosphate**

# Acute oral toxicity

LD50, Rat, male and female, 1,390 mg/kg

# **Acute dermal toxicity**

LD50, Rabbit, > 3,100 mg/kg No deaths occurred at this concentration.

### Acute inhalation toxicity

Signs and symptoms of excessive exposure may include: Incoordination.

LC50, Rat, male, 4 Hour, dust/mist, 4.242 mg/l OECD Test Guideline 403

# Skin corrosion/irritation

Brief contact may cause slight skin irritation with local redness.

Prolonged contact may cause skin irritation with local redness.

Repeated contact may cause skin burns. Symptoms may include pain, severe local redness, swelling, and tissue damage.

May cause drying and flaking of the skin.

#### Serious eye damage/eye irritation

May cause slight eye irritation.

May cause slight corneal injury.

Vapor may cause eye irritation experienced as mild discomfort and redness.

### Sensitization

For skin sensitization:

Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

## Specific Target Organ Systemic Toxicity (Single Exposure)

May cause respiratory irritation. Route of Exposure: Inhalation Target Organs: Respiratory system

# Specific Target Organ Systemic Toxicity (Repeated Exposure)

In animals, effects have been reported on the following organs:

Bladder. Blood. Kidney.

Liver.

Excessive exposure may produce organophosphate type cholinesterase inhibition. Signs and symptoms of excessive exposure to active ingredient may be headache, dizziness, incoordination, muscle twitching, tremors, nausea, abdominal cramps, diarrhea, sweating, pinpoint pupils, blurred vision, salivation, tearing, tightness in chest, excessive urination, convulsions.

# Carcinogenicity

Has caused cancer in some laboratory animals.

### **Teratogenicity**

Did not cause birth defects or any other fetal effects in laboratory animals.

# Reproductive toxicity

In animal studies, did not interfere with reproduction.

### Mutagenicity

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

### **Aspiration Hazard**

May be harmful if swallowed and enters airways.

### Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

# Acute oral toxicity

LD50, Rat, > 5,000 mg/kg OECD Test Guideline 401

### Acute dermal toxicity

LD50, Rat, > 2,000 mg/kg OECD Test Guideline 402

### Acute inhalation toxicity

The LC50 has not been determined.

# Skin corrosion/irritation

Brief contact may cause slight skin irritation with local redness.

### Serious eye damage/eye irritation

May cause slight temporary eye irritation.

#### Sensitization

Did not cause allergic skin reactions when tested in guinea pigs.

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

The substance or mixture is not classified as specific target organ toxicant, single exposure.

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

Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

# **Teratogenicity**

Has been toxic to the fetus in laboratory animals at doses toxic to the mother.

### Reproductive toxicity

In animal studies, has been shown to interfere with reproduction.

### Mutagenicity

In vitro genetic toxicity studies were negative. Information given is based on data obtained from similar substances.

# **Aspiration Hazard**

No aspiration toxicity classification

# Carcinogenicity

Component List Classification

Tributyl phosphate ACGIH A3: Confirmed animal carcinogen with

unknown relevance to humans.

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# 12. ECOLOGICAL INFORMATION

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

# **Toxicity**

### **Tributyl phosphate**

### Acute toxicity to fish

Material is moderately toxic to fish on an acute basis (LC50 between 1 and 10 mg/L). LC50, Pimephales promelas (fathead minnow), flow-through test, 96 Hour, 8.18 - 11 mg/l, OECD Test Guideline 203 or Equivalent

#### Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), static test, 48 Hour, 3.65 mg/l

# Acute toxicity to algae/aquatic plants

ErC50, alga Scenedesmus sp., static test, 72 Hour, Growth rate inhibition, 2.8 mg/l, OECD Test Guideline 201 or Equivalent

### Toxicity to bacteria

EC50, activated sludge, 3 Hour, 100 - 300 mg/l, OECD 209 Test

#### Chronic toxicity to fish

NOEC, Oncorhynchus mykiss (rainbow trout), flow-through, 95 d, survival, 0.82 mg/l

# Chronic toxicity to aquatic invertebrates

NOEC, Daphnia magna (Water flea), 21 d, 1.3 mg/l

# Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

# Acute toxicity to fish

LC50, Danio rerio (zebra fish), 96 Hour, > 100 mg/l, OECD Test Guideline 203

# Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), 48 Hour, 51 mg/l, OECD Test Guideline 202

## Acute toxicity to algae/aquatic plants

EC50, Desmodesmus subspicatus (green algae), 72 Hour, > 100 mg/l, OECD Test Guideline 201

NOEC, Desmodesmus subspicatus (green algae), 72 Hour, 10 - 100 mg/l, OECD Test Guideline 201

### Toxicity to bacteria

IC50, activated sludge, 3 Hour, > 100 mg/l

# Chronic toxicity to fish

Information given is based on tests on the mixture itself.

NOEC, Danio rerio (zebra fish), 34 d, 10 mg/l

# Persistence and degradability

# **Tributyl phosphate**

Biodegradability: Material is readily biodegradable. Passes OECD test(s) for ready

biodegradability. 10-day Window: Pass **Biodegradation:** 77 % **Exposure time:** 28 d

Method: OECD Test Guideline 301C or Equivalent

10-day Window: Pass Biodegradation: 92 % Exposure time: 28 d

Method: OECD Test Guideline 301D or Equivalent

Theoretical Oxygen Demand: 2.16 mg/mg

# **Photodegradation**

Test Type: Half-life (indirect photolysis)

**Sensitization:** OH radicals **Atmospheric half-life:** 0.136 d

Method: Estimated.

# Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

Biodegradability: Material is not readily biodegradable according to OECD/EEC guidelines.

**Biodegradation:** 0 - 1 % **Exposure time:** 28 d

Method: OECD Test Guideline 301B

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### Bioaccumulative potential

### **Tributyl phosphate**

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): 4.00 Measured

Bioconcentration factor (BCF): <= 20 Cyprinus carpio (Carp) 42 d OECD Test Guideline

305CBioconcentration factor (BCF): <= 49 Oryzias latipes (Orange-red killifish)

Measured

# Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

Bioaccumulation: Bioconcentration potential is low (BCF less than 100 or log Pow greater

than 7).

Partition coefficient: n-octanol/water(log Pow): >= 5 at 25 °C Estimated.

# Mobility in soil

# **Tributyl phosphate**

Potential for mobility in soil is low (Koc between 500 and 2000).

Partition coefficient (Koc): 1900 Estimated.

# Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

No data available.

# 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):

Not regulated for transport

Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code

Consult IMO regulations before transporting ocean bulk

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## 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

Carcinogenicity

Reproductive toxicity

# 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 inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

# 16. OTHER INFORMATION

Hazard Rating System NFPA

	Health	Flammability	Instability
	1	1	0
HI	VIS		
	Health	Flammability	Physical Hazard
	0*	1	0

<sup>\* =</sup> Chronic Effects (See Hazards Identification)

#### Revision

Identification Number: 4021027 / A776 / Issue Date: 03/20/2023 / Version: 8.0 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)
ACGIH BEI	ACGIH - Biological Exposure Indices (BEI)
CAL PEL	California permissible exposure limits for chemical contaminants (Title 8, Article
	107)
OSHA Z-1	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air
	Contaminants
PEL	Permissible exposure limit
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.

DDP SPECIALTY ELECTRONIC MATERIALS US 9, LLC urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.

US