



## Safety Data Sheet

### Section 1: Identification

**Product Name:** DOA Plasticizer  
**Synonyms:** bis(2-ethylhexyl) adipate  
Di(2-ethylhexyl)adipate; Hexanedioic acid, Bis(2-ethylhexyl) ester; Dioctyl Adipate  
**CAS #:** 103-23-1  
**Chemical Formula:** C<sub>22</sub>H<sub>42</sub>O<sub>4</sub>  
**Company:** AllChem Industries ICG, Inc. **Emergency Number:** CHEMTREC 800-424-9300  
6010 NW First Place  
Gainesville, FL 32607  
**Recommended Use:** Plasticizer.  
**Restrictions on Use:** No data available.

### Section 2: Hazard Identification

**GHS Label elements:** *\*Not classified as dangerous according to GHS criteria for this product.*  
*\*GHS label elements are not applicable for this product.*  
**Pictograms:** *\*No Hazard symbol required.*

### Section 3: Composition / Information on Ingredients

Component	CAS Number	Concentration	EC Number
bis(2-ethylhexyl) adipate	103-23-1	99.0 - 100 %	203-090-1

### Section 4: First Aid Measures

**Inhalation:** Remove to fresh air.  
If not breathing, apply artificial respiration.  
Get immediate medical attention.

**Ingestion:** Never give anything by mouth to an unconscious person.  
Get medical attention.  
If large amounts are swallowed get immediate medical attention.

**Skin Contact:** Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.  
Wash clothing before reuse or discard if they cannot be thoroughly cleaned.  
Get medical assistance if irritation persists.

**Eve Contact:** Flush eyes with plenty of water for at least 15 minutes, lifting the upper and lower eyelids.  
Get medical attention.

**Note to Phvsician:** Treat symptomatically and supportively.

### Section 5: Fire Fighting Measures

AllChem Industries Industrial Chemicals Group, Inc.  
6010 NW First Place • Gainesville, FL 32607  
TEL: (352) 378-9696 FAX: (352) 333-7438

- Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or alcohol resistant foam.  
Do NOT use solid water stream as it may spread fire.
- Special Protective Equipment:** Wear a self-contained breathing apparatus MSHA/NIOSH (approved or equivalent), and full protective gear.
- Specific Hazards:** Fire residues and contaminated water must be disposed of in accordance with local regulations.

### Section 6: Accidental Release Measures

- Emergency Procedures:** Wear personal protection equipment.  
Avoid contact with skin, eyes and clothing.  
Avoid breathing vapors, mist or gas.  
Ensure adequate ventilation.  
Keep unnecessary personnel away and upwind.
- Environmental Precautions:** Prevent further leakage or spillage if safe to do so.  
Do not let product enter soil, ditches, sewers, waterways, or groundwater.
- Methods of containment/cleanup:** Absorb with inert materials and place into appropriate containers for disposal.  
Notify appropriate authorities and dispose of in accordance with applicable requirements.

### Section 7: Handling and Storage

- Handling:** Wear personal protection equipment.  
Avoid contact with eyes, skin and clothing.  
Avoid ingestion and inhalation.  
Use only in well-ventilated area.  
Wash thoroughly after handling.
- Storage:** Store tightly closed container in a cool, dry, well-ventilated area.  
Keep isolated from incompatible materials.

### Section 8: Exposure Controls / Personal Protection

- Exposure Limit:** No exposure limits established.
- Engineering Controls:** Use adequate ventilation to keep airborne concentrations low.  
An emergency eye wash/shower must be readily accessible to the work area.
- Personal Protective Equipment:**
- Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134. In confined areas, use a self-contained breathing apparatus.
- Skin Protection:** Wear appropriate protective gloves and clothing to prevent skin exposure.
- Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

### Section 9: Physical and Chemical Properties

<b>Physical State:</b>	Liquid
<b>Color:</b>	Clear, colorless
<b>Odor:</b>	Mild
<b>Odor Threshold:</b>	Not determined
<b>pH:</b>	Not determined
<b>Melting/Freezing Point:</b>	-67.8 °C

<b>Boiling Point:</b>	417 °C
<b>Decomposition Temperature:</b>	400 °C
<b>Flash Point:</b>	196 °C
<b>Auto-ignition Temperature:</b>	377 °C
<b>Flammability/Explosive Limits:</b>	Lower limit: 0.38 % (V)
<b>Vapor Pressure:</b>	0.0000003 hPa at 20 °C
<b>Vapor Density (air=1):</b>	12.8
<b>Relative Density (water=1):</b>	0.9249 at 20 °C
<b>Solubility (in water):</b>	Negligible; < 0.0032 g/L at 22 °C
<b>Partition coefficient: n-Octanol/water:</b>	Log Pow: 8.94 at 25 °C
<b>Evaporation Rate (Butyl Acetate=1)</b>	Not determined
<b>Kinematic Viscosity</b>	No data available
<b>Molecular Weight:</b>	370.57 g/mol

### Section 10: Stability and Reactivity

<b>Stability:</b>	Stable at room temperature and under normal conditions.
<b>Hazardous Reactions:</b>	Thermally stable at typical use temperatures. Polymerization will not occur.
<b>Conditions to Avoid:</b>	None known
<b>Incompatible Materials:</b>	Strong oxidizing agents.
<b>Decomposition Products:</b>	Carbon oxides.

### Section 11: Toxicological Information

#### Potential Health Effects:

Inhalation:	Not expected to be harmful.
Skin Contact:	Not expected to be harmful.
Eye Contact:	Not expected to be harmful.
Ingestion:	Not expected to be harmful.

#### Numerical Measures of Acute Toxicity:

Route	Test	Subject	Value	Time
Oral	LD 50	Rat (male)	45,000 mg/kg	
Oral	LD 50	Rat (female)	24,600 mg/kg	
Dermal	LD 50	Rat	> 2,000 mg/kg	

#### Additional Information:

Aspiration Toxicity:	Not classified based on available information.
Carcinogenicity:	This product is not classified as a carcinogen by IARC or U.S. ACGIH, NTP or OSHA.
Germ cell mutagenicity:	Not classified based on available information.
Reproductive toxicity:	Not classified based on available information.

Sensitization: Not classified based on available information.

STOT - Repeated Exposure: Not classified based on available information.

STOT - Single Exposure: Not classified based on available information.

### Section 12: Ecological Information

Ecotoxicity	Group	Test	Subject	Value	Time
	Fish:	NOEC	Golden Orfe	> 10,000 mg/L	48 hours
	Aquatic invertebrates:	EC 50	Daphnia magna	> 500 mg/L	48 hours
	Aquatic plants:	EC 50	Scenedesmus subspicatus	> 500 mg/L	72 hours

**Persistence and Degradability:** Readily Biodegradable.

**Bioaccumulative Potential:** High potential for bioaccumulation.

**Mobility in Soil:** No data available.

### Section 13: Disposal Considerations

**Packaging:** Empty containers may retain product residue, follow label warnings even after container is emptied.

**Disposal:** Dispose of according to Federal, State, and Local Regulations.

### Section 14: Transportation Information

*The information in this section is for reference only and should not take the place of a bill of lading specific to an order.*

*Product is not regulated for transport per 49 CFR*

### Section 15: Regulatory Information

**US Federal - TSCA:** This product is listed on the TSCA active inventory.

**California - Prop 65:** This product is not subject to the State of California's Proposition 65 regulations.

### Section 16: Other Information

**Revision Date:** Wednesday, February 26, 2020

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall AllChem be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if AllChem has been advised of the possibility of such damages.*