



Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name **DIOCTYL ADIPATE**

Company Identification WEIFANG YUANLI CHEMICAL CO., LTD.

For information, call 86-536-6777737

For emergencies, call CHEMTEL 86-536-6777188

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	% EINECS#
103-23-1	Bis(2-ethylhexyl) adipate	99 203-090-1

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Possible risks of irreversible effects.

POTENTIAL HEALTH EFFECTS

The toxicological properties of this material have not been investigated. Use appropriate procedures to prevent opportunities for direct contact with the skin or eyes and to prevent inhalation.

Section 4 - First aid Measures

Eyes	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.
Skin	Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion	Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.
Inhalation	Remove from exposure to fresh air immediately.
Notes to Physician	Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Extinguishing Media	In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Section 6 - Accidental Release Measures

General Information	Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks	Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemical waste container. Clean up spills immediately, observing precautions in the Protective Equipment section.

Section 7 - Handling and Storage

Handling Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage Store in a cool, dry place. Keep container closed when not in use.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

PERSONAL PROTECTIVE EQUIPMENT

Eyes Wear safety glasses and chemical goggles if splashing is possible.

Skin Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing Wear appropriate protective clothing to minimize contact with skin.

Respirators Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

Section 9 - Physical and Chemical Properties

Physical State	Clear liquid
Appearance	Colorless
Odor	None reported.
pH	Not available.
Vapor Pressure	Not available.
Viscosity	Not available.
Boiling Point	417° C
Freezing/Melting Point	0° C
Auto-ignition Temperature	350° C (662.00° F)
Flash Point	196° C (384.80° F)
Explosion Limits, Lower	Not available.
	Upper: Not available.

Decomposition Temperature

Solubility	Immiscible with water
Specific Gravity/Density	.9240g/cm ³
Molecular Formula	C ₂₂ H ₄₂ O ₄
Molecular Weight	370.57

Section 10 - Stability and Reactivity

Chemical Stability Stable under normal temperatures and pressures.

Conditions to Avoid Incompatible materials, strong oxidants.

Incompatibilities with Other Materials Strong oxidizing agents.

Hazardous Decomposition Products Irritating and toxic fumes and gases.

Hazardous Polymerization Has not been reported.

Section 11 - Toxicological Information

RTECS# CAS# 103-23-1: AU9700000

LD₅₀/LC₅₀ CAS# 103-23-1: Oral, mouse: LD₅₀ = 15 gm/kg; Oral, rat: LD₅₀ = 9110 mg/kg; Skin, rabbit: LD₅₀ = 8410 mg/kg; Ipr, rat LD₅₀ = >50 ml/kg; Ivn, rat LD₅₀ = 900 mg/kg; Ipr, mouse LD₅₀ = >100 gm/kg; Ivn, rabbit LD₅₀ = 540 mg/kg; Oral, Mam. LD₅₀ = 15 gm/kg

Carcinogenicity Bis(2-ethylhexyl) adipate - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. See actual entry in RTECS for complete information.

Section 12 - Ecological Information
FOR FURTHER INFORMATION, CONTACT ACROS ORGANICS.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	US DOT	IATA	IMO	RID/ADR	Canadian TDG
Shipping Name:	No information available	-	-	-	No information available.
Hazard Class:	-	-	-	-	-
UN Number:	-	-	-	-	-
Packing Group:	-	-	-	-	-

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 40 Possible risks of irreversible effects.

Safety Phrases:

S 36/37 Wear suitable protective clothing and gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 103-23-1: 1

Canada

None of the chemicals in this product are listed on the DSL/NDSL list.

CAS# 103-23-1 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK

IARC cancer review: Animal limited evidence IMEMDT 29,257,1982

IARC cancer review: Human no adequate data IMEMDT 29,257,1982

IARC cancer review: Group 3 IMSUDL 7,56,1987

NOHS 1974: HZD 80276; NIS 19; TNF 534; NOS 31; TNE 11847

NOES 1983: HZD 80276; NIS 15; TNF 524; NOS 21; TNE 15636; TFE 3628

EPA Genetox program 1988, positive/dose response: Rodent dominant lethal

EPA TSCA section 8(b) chemical inventory

EPA TSCA section 8(d) unpublished health/safety studies

EPA TSCA section 8(e) risk notification, 8EHQ-0892-8917

On EPA IRIS database

EPA TSCA test submission (TSCATS) data base, December 1999

NTP Carcinogenesis bioassay (feed); clear evidence: Mouse NTPTR* NTP-TR-212, 1982

NTP Carcinogenesis bioassay (feed); no evidence: Rat NTPTR* NTP-TR-212, 1982

Section 16 - Additional Information

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 way shall the company 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 the company has been advised of the possibility of such damages. -----