

New Arkema, Inc.



SOYPOLYOL
Material Safety Data Sheet
ATOFINA Chemicals, Inc.

1 PRODUCT AND COMPANY IDENTIFICATION

Additives Experimental

2000 Market Street
28th Floor
Philadelphia, PA 19103-3222

EMERGENCY PHONE NUMBERS:

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
Medical: Rocky Mountain Poison Control Center
(866) 767-5089 (24Hrs)

Information Telephone Numbers	Phone Number	Available Hrs
Customer Service Number	(800) 331-7654	8:00 AM - 5:00 PM

Product Name SOYPOLYOL
Product Synonym(s)

Chemical Family Mixture of Soybean Oil Phosphate Ester Polyol and Diethyleneglycol Butyl Ether
Chemical Formula
Chemical Name
EPA Reg Num
Product Use Coatings, adhesives, industrial applications

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical Wt. %	OSHA
Soybean oil phosphate ester polyol	NE	95	N
Diethylene glycol butyl ether	112-34-5	5	Y

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

This material is classified as hazardous under Federal OSHA regulation.

FOR RESEARCH AND DEVELOPMENT USE ONLY BY TECHNICALLY QUALIFIED INDIVIDUALS UNDER SECTION 5(h)(3) OF THE TOXIC SUBSTANCES CONTROL ACT. THE PROPERTIES OF THIS MATERIAL HAVE NOT BEEN FULLY INVESTIGATED. USE DUE CAUTION IN HANDLING AND USE OF THIS MATERIAL.

3 HAZARDS IDENTIFICATION

Emergency Overview

Clear viscous liquid.

CAUTION!
MAY CAUSE EYE IRRITATION.

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Potential Health Effects

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on its composition, it is anticipated to be slightly toxic if absorbed through skin, moderately irritating to eyes and slightly irritating to skin.

4 FIRST AID MEASURES

IF IN EYES, immediately flush with plenty of water. Get medical attention if irritation persists.

IN CASE OF CONTACT, flush the area with plenty of water. Remove material from clothing. Wash clothing before reuse.

IF SWALLOWED, induce vomiting as directed by medical personnel. Get medical attention. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED, remove to fresh air.

5 FIRE FIGHTING MEASURES**Fire and Explosive Properties**

Auto-Ignition Temperature	NA	
Flash Point	>200 F	Flash Point Method
Flammable Limits- Upper	NA	
Lower	NA	

Extinguishing Media

Use water spray, carbon dioxide, foam or dry chemical.

Fire Fighting Instructions

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

Fire and Explosion Hazards

When burned, the following hazardous products of combustion can occur:

Oxides of carbon
Aldehydes

6 ACCIDENTAL RELEASE MEASURES**In Case of Spill or Leak**

Isolate hazard area and deny entry to unnecessary or unprotected personnel. Contain spilled liquid with sand or earth. Clean up spill immediately, observing precautions in the Personal Protection section of MSDS. Avoid runoff into storm sewers and ditches which lead to waterways.

7 HANDLING AND STORAGE

7 HANDLING AND STORAGE**Handling**

Avoid contact with eyes.
Wash thoroughly after handling.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

Storage

This material is not hazardous under normal storage conditions; however, material should be stored in closed containers, in a secure area to prevent container damage and subsequent spillage.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION**Engineering Controls**

Investigate engineering techniques to reduce exposures. Provide ventilation if necessary to minimize exposures. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

Eye / Face Protection

Where there is potential for eye contact, wear chemical goggles and have eye flushing equipment available.

Skin Protection

Minimize skin contamination by following good industrial hygiene practice. Wearing rubber gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

Respiratory Protection

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Airborne Exposure Guidelines for Ingredients

The components of this product have no established Airborne Exposure Guidelines

- Only those components with exposure limits are printed in this section.
- Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.
- ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.
- WEEL-AIHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor	Clear viscous liquid.
pH	NE
Specific Gravity	NE
Vapor Pressure	NE
Vapor Density	NE
Melting Point	NE
Freezing Point	NE
Boiling Point	>200 C
Solubility In Water	Negligible
Molecular Weight	approx. 1,099 gmw

10 STABILITY AND REACTIVITY**Stability**

This material is chemically stable under normal and anticipated storage and handling conditions.

Hazardous Polymerization

Does not occur.

Incompatibility

Avoid contact with strong acids, strong bases, and excessive heat.

Hazardous Decomposition Products

Upon thermal decomposition, the following products may be produced:
Oxides of carbon,
Aldehydes

11 TOXICOLOGICAL INFORMATION**Toxicological Information**

Data on this material and/or its components are summarized below.

Diethylene glycol butyl ether

Single exposure (acute) studies indicate that this material is practically non-toxic if swallowed (rat LD50 5,660-9,600 mg/kg), slightly toxic if absorbed through skin (rabbit LD50 2,700-4,120 mg/kg), moderately irritating to rabbit eyes and slightly irritating to rabbit skin.

Slight skin irritation and an increase in urinary occult blood were observed in rats following repeated application to the skin, but no effects on the nervous system were observed. Following repeated exposure in drinking water, liver and kidney injury were noted in rats. No birth defects or other adverse effects were observed in the offspring of rabbits exposed orally or by skin application during pregnancy. No effects were seen on the ability of male or female rats to reproduce when exposed orally for one-generation. Generally, no genetic changes were observed in tests using fruit flies, bacteria, animal cells or animals.

12 ECOLOGICAL INFORMATION
Ecotoxicological Information

Data on this material and/or its components are summarized below.

Diethylene glycol butyl ether

This material is practically non-toxic to Daphnia magna (24-hr LC50 2,850 mg/l), goldfish (24-hr EC50 2,700 mg/l), bluegill sunfish (96-hr LC50 1,300 mg/l), tidewater silversides (96-hr LC50 2,000 mg/l), and bacteria (IC50 225 mg/l). It is slightly toxic to algae (EC50 53 mg/l).

Chemical Fate Information

Data on this material and/or its components are summarized below.

Diethylene glycol butyl ether

This material is biodegradable (88% after 28-days).

13 DISPOSAL CONSIDERATIONS
Waste Disposal

Incineration is the recommended method for disposal observing all local, state and federal regulations.

14 TRANSPORT INFORMATION

DOT Name	Not regulated by DOT
DOT Technical Name	
DOT Hazard Class	
UN Number	
DOT Packing Group	PG
RQ	

15 REGULATORY INFORMATION
Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)

Immediate (Acute) Health	Y	Fire	N
Delayed (Chronic) Health	N	Reactive	N
		Sudden Release of Pressure	N

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Ingredient Related Regulatory Information:

SARA Reportable Quantities	CERCLA RQ	SARA TPQ
Diethylene glycol butyl ether	NE	
Soybean oil phosphate ester polyol	NE	NE



SARA Title III, Section 313

This product does contain chemical(s) which are defined as toxic chemicals under and subject to the reporting requirements of, Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. See Section 2

Diethylene glycol butyl ether

New Jersey Right to Know

This product does contain the following chemical(s), as indicated below, currently on the New Jersey Right-to-Know Substances List.

Diethylene glycol butyl ether

Pennsylvania Environmental Hazard

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Environmental Hazard List.

Diethylene glycol butyl ether

Pennsylvania Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Hazardous Substance List.

Diethylene glycol butyl ether

16 OTHER INFORMATION

Revision Information

Revision Date 22 AUG 2003 Revision Number 1
Supersedes Revision Dated

Revision Summary

Key

NE= Not Established NA= Not Applicable (R) = Registered Trademark

R & D Sample

ATOFINA Chemicals, Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use are beyond the control of ATOFINA Chemicals, ATOFINA Chemicals expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.



August 22, 2003

Dear Customer:

One or more of the chemicals we are shipping you are not on the Toxic Substance Control Act (TSCA) Inventory list and is being sent to you as a research and development (R&D) chemical. In order to be exempt from Premanufacturing Notification (PMN) requirements, the EPA requires that these chemicals be used solely for R&D and that all research is supervised by a "technically qualified individual" as defined in 40 C.F.R. 720.3(ee) (see below).

The chemical, physical, and toxicological properties of these chemicals may not have been fully investigated. Use due caution in the handling of this material and follow appropriate good industrial hygiene and safety precautions to control exposure. Consult the enclosed (attached) Material Safety Data Sheet (MSDS) for additional information.

Because the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for injuries, damages, or penalties resulting from the use whether or not our suggestions are followed. Such recommendations are not to be taken as a license to operate under or to infringe any patent.

Very Truly Yours,

Director, Regulatory Affairs and Product Safety-
ATOFINA Chemicals, Inc.

Additives Experimental
(215) 419-5804

40 C.F.R. 720.3(ee): Technically qualified individual means a person or persons (1) who, because of education, training, or experience, or a combination of these factors, is capable of understanding the health and environmental risks associated with the chemical substance which is used under his or her supervision, (2) who is responsible for enforcing appropriate methods of conducting scientific experimentation, analysis, or chemical research to minimize such risks, and (3) who is responsible for the safety assessments and clearances related to the procurement, storage, use, and disposal of the chemical substance required within the scope of conducting a research and developmental activity.