



Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

TP-95 RUBBER CHEMICAL

Supplier Rohm and Haas Chemicals LLC
A Subsidiary of The Dow Chemical Company
100 Independence Mall West
Philadelphia, PA 19106-2399 United States

For non-emergency information contact: +12155923000

Emergency telephone number
CHEMTREC: 1 800 424 9300
Local Emergency telephone number
989-636-4400

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
BIS(2-(2-BUTOXYETHOXY)ETHYL) ADIPATE	141-17-3	98.0 - 100.0%
Diethylene glycol monobutyl ether	112-34-5	<= 1.0%

3. HAZARDS IDENTIFICATION

Emergency Overview

Appearance

Form liquid
Colour amber
Odour slight

Hazard Summary**CAUTION!**

Direct contact with material can cause the following:
slight irritation

The solvent(s) in this material can cause the following:
gastrointestinal irritation

Kidney effects
liver damage
blood disorders

Potential Health Effects

Eyes: Direct contact with material can cause the following:
slight to moderate irritation

Skin: irritation

Inhalation: headache

irritation of nose, throat, and lungs

nausea

dizziness

Inhalation of solvent vapor or mist can cause the following:

Primary Routes of Entry: Eye contact
 Inhalation
 Skin contact

Chronic Exposure: Repeated overexposure to diethylene glycol monobutyl ether can cause the following: - kidney damage - liver damage - blood changes

4. FIRST AID MEASURES

Inhalation: Move to fresh air.

Skin contact: Remove contaminated clothing. Wash off with soap and plenty of water. Wash contaminated clothing before re-use. Do not take clothing home to be laundered. Consult a physician.

Eye contact: Flush eyes with water as a precaution. If eye irritation persists, consult a specialist.

Ingestion: Drink 1 or 2 glasses of water. Consult a physician. If vomiting occurs spontaneously, keep airway clear. Never give anything by mouth to an unconscious person.

Notes to physician: Glycol ethers can cause delayed liver and kidney damage.

5. FIRE-FIGHTING MEASURES

Flash point 93 °C (199.94 °F) SETAFLASH CLOSED CUP

Lower explosion limit no data available

Upper explosion limit no data available

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

Specific hazards during fire fighting: Closed containers may rupture via pressure build-up when exposed to fire or extreme heat. During a fire, irritating and highly toxic gases and/or fumes may be generated during combustion or decomposition. Dried product can burn.

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

Further information: Move containers promptly out of fire zone. If removal is impossible, cool containers with water spray.
Remain upwind.
Avoid breathing smoke.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8, Exposure Controls/Personal Protection, for recommendations.

If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, for actions to follow.

Environmental precautions

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Methods for cleaning up

Evacuate personnel to safe areas.

Ventilate the area.

Floor may be slippery; use care to avoid falling.

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Sweep up or vacuum up spillage and collect in suitable container for disposal.

Avoid breathing vapor.

7. HANDLING AND STORAGE

Handling

Vapors can be evolved when material is heated during processing operations. See SECTION 8, Exposure Controls/Personal Protection, for types of ventilation required. Wash after handling and shower at end of work period.

Other data: STIR WELL BEFORE USE.

Storage

Storage conditions: Avoid temperature extremes during storage; ambient temperature preferred. Keep from freezing - product stability may be affected. Store out of direct sunlight in a cool place. Keep containers tightly closed in a cool, well-ventilated place.

Further information:

CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all MSDS and label warnings even after container is emptied.

Improper disposal or re-use of this container may be dangerous and illegal. Refer to applicable local, state and federal regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit(s)

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value
Diethylene glycol monobutyl ether	Rohm and Haas	TWA Vapor and aerosol.	35 ppm

Exposure controls

Engineering measures: Use local exhaust ventilation with a minimum capture velocity of 100 ft/min. (0.5 m/sec.) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

Protective measures: Facilities storing or utilizing this material should be equipped with an eyewash facility.

Individual protection measures

Eye/face protection: Use safety glasses with side shields (ANSI Z87.1 or approved equivalent). Eye protection worn must be compatible with respiratory protection system employed.

Skin protection

Hand protection: Chemical-resistant gloves should be worn whenever this material is handled. The glove(s) listed below may provide protection against permeation. (Gloves of other chemically resistant materials may not provide adequate protection): Nitrile rubber. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water.

Other protection: Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.

Respiratory protection: A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use. None required under normal operating conditions. Where vapors and/or mists may occur, wear a properly fitted NIOSH approved (or equivalent) half-mask, air-purifying respirator. Air-purifying respirators should be equipped with NIOSH approved (or equivalent) organic vapor cartridges and N95 filters. If oil mist is present, use R95 or P95 filters. Use NIOSH approved respiratory protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	liquid
Colour	amber
Odour	slight
pH	not applicable

Melting point/range	not applicable
Boiling point/boiling range	no data available
Flash point	93 °C (199.94 °F) SETAFLASH CLOSED CUP
Evaporation rate	not applicable
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	not applicable
Relative vapour density	not applicable
Relative density	1.01
Water solubility	slightly soluble
Viscosity, dynamic	no data available
Percent volatility	<1 %

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

10. STABILITY AND REACTIVITY

Hazardous reactions	This material is considered stable.
Materials to avoid	Avoid contact with the following: Strong Oxidizers
Hazardous decomposition products	There are no known hazardous decomposition products for this material.,
Polymerisation	Product will not undergo polymerization.

11. TOXICOLOGICAL INFORMATION

No data are available for this material. The information shown is based on profiles of compositionally similar materials.

Acute oral toxicity	LD50 rat > 2,000 mg/kg
Acute dermal toxicity	LD50 rat > 2,000 mg/kg
Skin irritation	slight irritation
Eye irritation	No eye irritation

12. ECOLOGICAL INFORMATION

There is no data available for this product.

Diethylene glycol monobutyl ether Ecotoxicity effects

Toxicity to fish	LC50 Lepomis macrochirus (Bluegill sunfish) 96 h Method Not Specified 1300 ppm
Toxicity to fish	LC50 Bluegill sunfish (Lepomis macrochirus) 96 h Method Not Specified 1,300 mg/l
Toxicity to algae	Algae (Scenedesmus subspicatus) 96 h OECD Test Guideline 201 or Equivalent >100 ppm
Toxicity to aquatic invertebrates	EC50 Daphnia magna 48 h OECD Test Guideline 202 or Equivalent >100 ppm

13. DISPOSAL CONSIDERATIONS

Environmental precautions: CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Disposal

Waste Classification: When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic (TC), however, has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

For disposal, incinerate this material at a facility that complies with local, state, and federal regulations. (See 40 CFR 268)

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT

Not regulated for transport

IMO/IMDG

Not regulated (Not dangerous for transport)

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations

15. REGULATORY INFORMATION

Workplace Classification

OSHA: This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

WHMIS: This product is a 'controlled product' under the Canadian Workplace Hazardous Materials Information System (WHMIS).

SARA TITLE III: Section 311/312 Categorizations (40CFR370): Chronic Health Hazard**SARA TITLE III: Section 313 Information (40CFR372)**

This product contains a chemical which is listed in Section 313 at or above de minimis concentrations. The following listed chemicals are present: (Quantity present is found elsewhere on this MSDS.)

SARA Title III Components:	Diethylene glycol monobutyl ether	112-34-5
	BIS(2-(2-BUTOXYETHOXY)ETHYL)	141-17-3
	ADIPATE	

CERCLA Information (40CFR302.4)

Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

US. Toxic Substances Control Act (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.

Pennsylvania

Any material listed as "Not Hazardous" in the CAS REG NO. column of SECTION 2, Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.

16. OTHER INFORMATION

HMIS: * = Chronic Effects (See Hazards Identification)

HMIS Hazard Rating

Health	Fire	Reactivity	Physical Hazard	PPE
*1	1	0		

Legend

ACGIH	American Conference of Governmental Industrial Hygienists
BAC	Butyl acetate
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit (STEL):
TLV	Threshold Limit Value
TWA	Time Weighted Average (TWA):
	Bar denotes a revision from prior MSDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

