

MATERIAL SAFETY DATA SHEET

HAZARD RATINGS HMIS
 Health 2*
 Flammability 2
 Reactivity 0
 PPE X

1 CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name TOP "Rainbuster" 900 (all colors & packages)
MSDS Name A27017
CAS Number Mixture
Generic Description Polycarbamate Sealant/Adhesive CARB Compliant
Manufacturer TOP Industrial, Inc.
 15010 Keswick Street
 Van Nuys, CA 91405
24 Hour Emergency Assistance
 Phone: 800-473-1617
General Assistance
 Phone: 818-901-1313

2 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Percentage
Xylene	1330-20-7	< 4
Methylene Diphenyl Isocyanate (MDI)	101-68-8	0.1 – 1
Ethyl Benzene	100-41-4	<0.8
Non-hazardous and other ingredients below reportable levels	Proprietary	Balance

3 HAZARDS IDENTIFICATION

Emergency Overview

This product contains materials that on exposure could cause irritation and minor residual injury even if no treatment is provided. This product is stable under normal conditions but will react slightly with water to release some heat and carbon dioxide. The reaction is not violent.

POTENTIAL HEALTH EFFECTS

Skin Contact: May cause irritation when in contact with the skin. Repeated skin contact may cause a persistent irritation or dermatitis. Prolonged and/or repeated contact with skin may cause an allergic reaction/sensitization.

Eye Contact: May cause irritation with temporary redness with stinging and tearing.

Inhalation: Not likely to occur if used with adequate ventilation. However, can be harmful if aspirated into lungs. May cause respiratory sensitization if inhaled. High vapor concentrations of xylene (approximately greater than 1000 ppm) may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects.

Ingestion: Exposure is unlikely. This product can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Target Organ Effects

Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates. If not adequately ventilated the lungs maybe targeted by components of this product. If not adequately protected the eyes maybe targeted by components of this product.

4 FIRST AID MEASURES**Skin**

For skin contact, wash immediately with soap and water. If irritation persists, get medical attention. See Notes to Physician.

Eye

Immediately flush with plenty of water for at least 15 minutes, holding eyelids open at all times. Get medical attention immediately. See Notes to Physician.

Inhalation

Remove to fresh air. Get medical attention if symptoms develop. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours.

Ingestion

No harmful effect is anticipated. If ingested, get immediate medical attention. Do not induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Notes To Physician

A component of this product is a potential skin sensitizer. Treat symptomatically as for contact dermatitis. Persons with hypersensitivities to isocyanates should be removed from exposure to any isocyanates. May aggravate existing heart conditions, particularly those with abnormal heart rhythms.

5 FIRE FIGHTING MEASURES**Extinguishing Media**

Use dry chemical, carbon dioxide or foam. Use water spray on large fires.

Dust Explosion Hazard

None Known

Sensitivity To Mechanical Impact

None Known

Sensitivity To Static Discharge

None Known

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing, including self-contained breathing apparatus.

Flash Point	169.8°F
Auto Ignition Point	957°F (502°C)
Lower Explosive Limit	1.05°F
Upper Explosive Limit	6.86°F

6 ACCIDENTAL RELEASE MEASURES**Emergency Action**

Appropriate safety measures and protective equipment should be used. See Section 8.

Containment

Isolate spill area. Stop discharge if safe to do so. Stop material from contaminating soil or from entering sewers or water streams. Scrape up polyurethane and deposit into appropriate containers.

7 HANDLING & STORAGE

For Commercial Use Only - Not Packaged or Labeled for Home Use!

Handling

Avoid contact with skin and eyes. Wash thoroughly after handling. Use this product with adequate ventilation.

Storage

Keep the container tightly closed and in a cool, well-ventilated place.

Empty Container Precaution

Attention! Follow label warnings even after container is emptied since empty containers may retain product residues. Do not reuse empty container without professional cleaning for food, clothing, or products for human or animal consumption, or where skin contact can occur.

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

Use with adequate ventilation.

Eye Protection

Safety glasses with side shields are recommended.

Skin And Body Protection

Wear appropriate clothing to minimize skin contact with this product.

Respiratory Protection

Not normally needed. However, where the potential exists to exceed the PEL or TLV, use a properly fitted NIOSH approved respirator.

General

Eyewash fountains and emergency showers should be readily available. Use good industrial hygiene practices in handling this material.

Exposure Limits**ACGIH - Occupational Exposure Limits - TWAs**

4,4'-METHYLENEDIPHENYL DIISOCYANATE; DIPHENYLMETHANE-4,4'-DI ETHYL BENZENE	101-68-8	0.005 ppm TWA
XYLENES (O-, M-, P- ISOMERS)	1330-20-7	100ppm TWA
		100 ppm TWA

OSHA - Vacated PELs - Ceiling Limits

4,4'-METHYLENEDIPHENYL DIISOCYANATE; DIPHENYLMETHANE-4,4'-DI	101-68-8	0.02 ppm Ceiling; 0.2 mg/m3 Ceiling
--	----------	-------------------------------------

OSHA - Vacated PELs - Time Weighted Averages

ETHYL BENZENE	100-41-4	100 ppm TWA; 435 mg/m3 TWA
XYLENES (O-, M-, P- ISOMERS)	1330-20-7	100 ppm TWA; 435 mg/m3 TWA

9 PHYSICAL & CHEMICAL PROPERTIES

Boiling Point	283 - 343°F
Vapor Pressure	9
Vapor Density	3.9
Solubility In Water	0%
Target Solids	> 96%
pH	N/A
Density	1.36 g/ml
Odor	Solvent
Color	Various
Physical State	Paste
Freeze Protect	No

10 STABILITY & REACTIVITY

Stability/Incompatibility

Stable under normal conditions.

Hazardous Reactions/Decomposition Products

If product is burned carbon monoxide, carbon dioxide, oxides of nitrogen, amines, isocyanate-containing compounds and other unknown products may be produced.

Hazardous Polymerization

Not likely to occur.

Conditions To Avoid

Avoid contact with Strong Oxidizers and Strong Acids.

11 TOXICOLOGICAL INFORMATION

Ld50

NIOSH - Selected LD50s and LC50s

4,4'-METHYLENEDIPHENYL DIISOCYANATE; DIPHENYLMETHANE-4,4'-DI XYLENES (O-, M-, P- ISOMERS)	101-68-8	Inhalation LC50 Rat: 178 mg/m ³ ; Oral LD 50 Rat: 9200 mg/kg; Oral LD50 Mouse: 2200 mg/kg
	1330-20-7	Inhalation LC50 Rat: 5000 ppm/4H; Oral LD50 Rat: 4300 mg/kg; Dermal LD50 Rabbit: >1700 mg/kg
ETHYL BENZENE	100-41-4	Oral LD50 Rat: 3500 mg/kg; Dermal LD50 Rabbit: 17800 µl/kg

Carcinogenicity

This product contains Methylene Diphenyl Isocyanate (MDI). MDI is not listed by the NTP, IARC or regulated by OSHA as a carcinogen. However, it has been shown to alter cells in certain experiments. Although inconclusive, these cellular changes are thought to indicate potential carcinogenicity.

12 ECOLOGICAL INFORMATION

VOC (Volatile Organic Compounds) 53.6 g/l

Ecotoxicological Information

Organic solvents produce slight to moderate toxicity to aquatic life. Insufficient data exists to evaluate the effect on plants, birds or land animals.

13 DISPOSAL CONSIDERATIONS

We make no guarantee or warranty of any kind that the use or disposal of this product complies with all local, state or federal laws. It is also the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.

Waste Disposal

This product is not known to be regulated under RCRA regulations but contains SARA regulated substances. Disposal of unused portions of this product and process waste containing this product should be done only after a careful evaluation and in compliance with all federal, local and state laws.

14 TRANSPORT INFORMATION

Comments

Based on testing, this product is not considered a flammable solid as per DOT 49 CFR 173.124.

Proper Shipping Name	Not Regulated
Hazard Class	Not Applicable
DOT Restrictions	Not Applicable

15 REGULATORY INFORMATION

This MSDS is prepared and distributed pursuant to the Federal Hazard Communication Standard, 29 CFR 1910.1200.

Federal Regulations

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA - Hazardous Substances and their Reportable Quantities

4,4'-METHYLENEDIPHENYL DIISOCYANATE; DIPHENYLMETHANE-4,4'-DI ETHYL BENZENE	101-68-8	5000 lb final RQ; 2270 kg final RQ
XYLENES (O-, M-, P- ISOMERS)	100-41-4	1000 lb final RQ; 454 kg final RQ
	1330-20-7	100 lb final RQ; 45.4 kg final RQ

Based on an evaluation of the components used, this product does contain hazardous ingredients identified as per 29 CFR 1910.1200.

State Regulations (Prop 65)

This Product contains chemicals required to be listed by the State of California known to cause cancer.

ETHYL BENZENE	100-41-4	carcinogen, initial date 6/11/04
---------------	----------	----------------------------------

International Regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and contains all the information required by the Controlled Products Regulations.

This is a "controlled product" under the Canadian Workplace Hazardous Materials Information System (WHMIS). Class D Division 2 Sub-division B. and Class B Division 3

SARA 302 EXTREMELY HAZARDOUS SUBSTANCES

Not Regulated

SARA 311/312 HAZARD CATEGORIES

Immediate Hazard	Yes
Delayed Hazard	Yes
Fire Hazard	No
Pressure Hazard	No
Reactivity Hazard	No

SARA 313 TOXIC CHEMICALS

Component	CAS Number	Percentage
Xylene	1330-20-7	< 4
Methylene Diphenyl Isocyanate (MDI)	101-68-8	0.1 – 1

WHMIS RATINGS

Compressed Gas	Flammable/Combustible X	Oxidizer	Acutely Toxic
Other Toxic Effects X	Bio Hazardous	Corrosive	Dangerously Reactive

16 OTHER INFORMATION**Disclaimer**

The data in this MSDS has been compiled from publicly available sources. This data relates only to the designated product and not to the use of said product in combination with other materials. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Responsibility for proper precautions and safe use of the product lies with the user. All data in this MSDS is typical of the product as a whole, and does not represent any individual lot or batch, therefore, Top Industrial, Inc. makes no warranty about the accuracy of the data herein and assumes no liability for the use of such data. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

Issue Date 16-June-2005 **Supersedes** Previous

Prepared By P. Yamakawa