

General Protective and Hygienic Measures:	Usual precautionary measures should be adhered to when handling chemicals.
Respiratory protection:	None required if work area is properly ventilated.
Hand Protection:	Protective chemical resistant gloves.
Eye Protection:	Safety glasses.
Body Protection:	Protective work clothing. Launder separately.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Clear liquid
ODOR:	Mild
ODOR THRESHOLD:	N/A
pH:	N/A
MELTING POINT:	N/A
BOILING POINT:	80° C
FLASH POINT AND METHOD:	378 F, 192 C
EVAPORATION RATE:	N/A
FLAMMABILITY(Solid/Gas):	N/A
FLAMMABLE LIMITS:	N/A TO N/A
VAPOUR PRESSURE:	N/A
VAPOUR DENSITY:	N/A
SPECIFIC GRAVITY:	1.10
% SOLUBILITY IN WATER:	N/A
EXPLOSION RATE:	N/A
OCTANOL/WATER PARTITION COEFFICIENT:	N/A
AUTO-IGNITION TEMPERATURE:	N/A
DECOMPOSITION TEMPERATURE:	N/A

10. STABILITY AND REACTIVITY

CHEMICAL INCOMPATIBLE MATERIALS:	Avoid contact with isocyanates and strong oxidizing agents.
HAZARDOUS POLYMERIZATION:	Not expected to occur.
PRODUCT DECOMPOSITION:	Oxides of carbon, oxides of nitrogen

11. TOXICOLOGICAL INFORMATION

Mixture Toxicity	
Component Toxicity	
3033-62-3	Bis(2-dimethylaminoethyl) ether Oral LD50: 910 mg/kg (Rat) Dermal LD50: 238 mg/kg (Rabbit) Inhalation LC50: 117 ppm (Rat)
Toxicity Values Listed if Known	
Acute Toxicity:	
Eyes:	Irritating to eyes
Skin:	Harmful in contact with skin
Inhalation:	Not expected to be a route of exposure
Ingestion:	Harmful if swallowed. Consult physician
Chronic Effects	Possible harmful target organ effects
Routes of Entry	Ingestion, skin contact, eye contact
Target Organs	Skin, Eyes

12. ECOLOGICAL INFORMATION

General Information:	Based on experience, no adverse effects are to be expected if correct disposal procedures have been followed as indicated in section 13. Individual component ecotoxicity listed if known.
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13. DISPOSAL CONSIDERATIONS

Recommendation:	Observe local requirements. Dispose of in accordance with local/state/federal regulations.
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14. TRANSPORT INFORMATION

Not considered a dangerous good according to transport regulations unless specifically cited below:				
Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class

15. REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312	
Acute toxicity (any route of exposure) Respiratory or skin sensitisation Specific target organ toxicity (single or repeated exposure) Skin corrosion or irritation Serious eye damage or eye irritation	
Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313	
This product contains the following substances which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and which are listed in 40 CFR 372.	
Components	CASRN
Diphenylmethane Diisocyanate, isomers and homologues	9016-87-9
4,4'-Methylenediphenyl diisocyanate	101-68-8
Pennsylvania Worker and Community Right-To-Know Act:	
To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.	
California Prop. 65	
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	
United States TSCA Inventory (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.	

16. OTHER INFORMATION

Legend	
ACGIH	USA. ACGIH Threshold Limit Values (TLV)
C	Ceiling
OSHA Z-1	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
STEL	Short term exposure limit
TWA	Time weighted average
Full text of other abbreviations	
AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP -Good	

Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population(Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL – No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP – National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bio accumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the EuropeanParliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA -Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bio accumulative

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

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