Imperial Adhesives Inc.
6315 Wiehe Road
Cincinnati, OH 45237

Attn: Plant Manager/Director Safety
NORTHWEST RUBB
ANDY B

8/26/03

Dear Customer:

The enclosed Material Safety Data Sheet (MSDS) is being provided in conformance with the OSHA Hazard Communication Standard.

If someone other than the recipient is responsible for your hazard communication program, please forward it to his/her attention.

The standard requires you to maintain a file of MSDS for each hazardous material you use, and also to communicate and make this information available to your employees.

If you require additional information concerning this product, please contact your local salesperson.

We appreciate your patronage and look forward to serving you in the future.

Imperial Adhesives Inc.

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6315 Wiehe Road
Cincinnati, OH 45237
DOT EMERGENCY (800)424-9300 OR (703)527-3887
INFORMATION PHONE NO. 513-351-1300 (M-F 8am-5pm ET)

H.M.I.S.
HEALTH 3*
FLAMMABILITY 1
REACTIVITY 0
These ratings should be used only as part of full implemented H.M.I.S. program.

M A T E R I A L S A F E T Y D A T A S H E E T

SECTION 1 - PRODUCT INFORMATION

DATE OF PREPARATION 8/26/03

TRADE NAME..... **TWO PART URETHANE**

MANUFACTURER CODE I.D. **SIA-173AB**

SECTION 2 - HAZARDOUS INGREDIENTS/COMPOSITION INFORMATION

INGREDIENT	% BY WGT	CAS NO.		ALLOWABLE EXPOSURE LEVEL PPM	ALLOWABLE EXPOSURE LEVEL MG/CU.M.	SARA 313 SKIN	VP mm Hg @ 20 DEG.C
DIPHENYLMETHANE DIISOCYANATE		26447-40-5	TLV-TWA	0.0050	0.0550		
DIPHENYLMETHANE DI-ISOCYANATE OLIGOMERS	10	9016-87-9	MFR	0.0200	0.2000	X	
DIGLYCIDYL ETHER OF BISPHENOL-A RESIN		25068-38-6	NONE ESTABLISHED				
TALC		14807-96-6	TLV-TWA		2		
			OSHA-PEL		2		
CRYSTALLINE SILICA		14808-60-7	TLV-TWA		0.1000		
			OSHA-PEL		0.1000		
CALCIUM CARBONATE		471-34-1	NONE ESTABLISHED				

SKIN = SKIN ABSORPTION MUST BE CONSIDERED AS A ROUTE OF EXPOSURE
C-CEILING= ALLOW. EXPOSURE LEVEL SHOULD NOT BE EXCEEDED FOR ANY TIME PERIOD
MFR = MANUFACTURER RECOMMENDED EXPOSURE LIMIT
STEL = SHORT TERM EXPOSURE LIMIT
X-SARA 313 = CHEMICAL IS SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF S.A.R.A. 40 CFR PART 372

SECTION 3 - HAZARDS IDENTIFICATION

EFFECTS OF SHORT TERM OVEREXPOSURE

SWALLOWING
May be fatal if swallowed.
Can cause gastrointestinal irritation, nausea, and vomiting. Aspiration of material into lung may cause chemical pneumonitis which can be fatal.

INHALATION
May cause respiratory sensitization (potential for allergic reaction).
May cause respiratory irritation.

EYE
May cause severe eye irritation.

SKIN
Primary skin irritant.
May cause skin sensitization (allergic reaction).

SECTION 3 - HAZARDS IDENTIFICATION (Continued)

SKIN
May cause skin irritation.

EFFECTS OF REPEATED OVEREXPOSURE
Repeated and prolonged occupational overexposure to crystalline silica may cause silicosis, a progressively disabling lung disease.
Prexisting respiratory conditions may be aggravated by exposure to crystalline silica.

SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH.
The International Agency for Research on Cancer considers crystalline silica to have limited evidence of carcinogenicity in humans and sufficient evidence in experimental animals (IARC Group 2A).
This product contains Calcium Carbonate, which contains a trace amount of naturally occuring crystalline silica. The respirable crystalline silica content of Dualite is below 0.1 percent. If respirable dust exposures are kept below the TLV of 3 mg/M3 measurable silica exposure is not expected. Silica is capable of causing lung damage (silicosis) and is considered to be an IARC 2A carcinogen

SECTION 4 - FIRST-AID MEASURES

SWALLOWING
If swallowed call Poison Control Center, Hospital Emergency Room, or Physician immediately.

INHALATION
Remove to fresh air immediately. If breathing has stopped, give artificial respiration. Keep warm and quiet. Get medical attention immediately.

EYE
Flush with large amounts of water, lifting upper and lower lids occasionally. Continue for at least 15 minutes. Get medical attention.

SKIN
Immediately flush the contaminated area with large amounts of water. Remove contaminated clothing as water is applied. Consult a physician.

NOTES TO PHYSICIAN
Any treatment that might be required for overexposure should be directed at the control of symptoms and the clinical conditions.

SECTION 5 - FIRE-FIGHTING MEASURES

NFPA FLAMMABILITY CLASSIFICATION COMBUSTIBLE LIQUID - CLASS IIIB

FLASHPOINT 370 DEG.F,PMCC (188 DEG.C,)

EXTINGUISHING MEDIA
Use NFPA Class B Fire extinguishers (carbon dioxide, all purpose dry chemical or alcohol foam) designed to extinguish flammable liquid fires. Polymer foam is preferred for large fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS
During emergency conditions, overexposure to decompostion products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES
Firefighters should wear self-contained breathing apparatus.
Water may be ineffective, but may be used to cool exposed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
The use of a NIOSH/MSHA approved, TC19C, air-supplied breathing apparatus may be required. Consult with a qualified occupational health and /or safety professional.
Contain spill, cover liquid with inert absorbent material. Place in open container. Remove to a well ventilated area. Treat with dilute ammonia

SECTION 6 - ACCIDENTAL RELEASE MEASURES (Continued)

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
solution (8%).(Heat may liberated). Ventilate for 24hrs. Dispose of properly.
Wear respirators, eye, hand, and body protection appropriate for the size of the spill and the exposures encountered.
WASTE DISPOSAL
Dispose in accordance with federal, state and local regulations.
ENVIRONMENTAL HAZARDS
None known

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
Prolonged heating over 160 F (71 C) or storage below 75 deg. F should be avoided.
Protect from moisture contamination which may cause an exothermic generation of carbon dioxide and a dangerous preesure buildup.
OTHER PRECAUTIONS
Do not take internally. Close container after each use.
Do not breathe sanding dust.
Empty containers must not be washed and re-used for any purpose.
Never use pressure to empty. Drum is not a pressure vessel.

SECTION 8 - EXPOSURE CONTROLS

RESPIRATORY PROTECTION
The absence of heat or aerosol generation reduces the likelihood of the need for respiratory protection. Since conditions of use vary, it is the responsibility of each user of this product to evaluate potential exposures within their facility. If such conditions indicate the need for respiratory protection, proper selection depends upon many factors including duration and level of exposure and conditions of use. In general, exposure to the substances listed in Section II of this MSDS may not require the use of respiratory protection if exposures are maintained below recommended exposure limits. This can be accomplished by the use of engineering controls. One example of such controls would be the use of NIOSH approved respirator with an appropriate protection factor should be provided. If exposures are determined to be excessive, or if the use of respirators is desired a positive pressure supplied air respirator will provide adequate protection. The use of air purifying respirators may also be suitable in some situations. Please refer to the American Industrial Hygiene Association Journal J. 47(7):393-398 (1986). Consult a qualified occupational health and safety professional regarding conditions of use within your facility. Refer to OSHA 29 CFR 1910.134 "Respiratory Protection" and Respiratory Protection: A Manual And Guideline, American Industrial Hygiene Association."
VENTILATION
Provide general dilution and local exhaust ventilation in sufficient volume and pattern to keep concentrations of hazardous ingredients listed in Section II below the lowest exposure limit stated. Remove decomposition products that are generated when welding, cutting, or brazing objects coated with this product. Refer to "Industrial Ventilation - A Manual of Recommended Practice " ACGIH .
HAND PROTECTION
Wear appropriate impermeable gloves.
EYE PROTECTION
Wear safety spectacles and chemical splash goggles (ANSI Z87.1 or equilavent).
OTHER PROTECTIVE EQUIPMENT
Eyewash facility, safety shower.
Remove and wash contaiminated clothing before re-use. Discard contaminated shoes.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE 406 DEG.F. (208 DEG.C.)

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES (Continued)

VAPOR DENSITY Not applicable. **% VOLATILE BY VOLUME** 0

EVAPORATION RATE **VOC** .00 **lb/gal less water& NPRS*** 0 **g/l less water** CALCULATED
Not applicable.

WEIGHT LB./GAL. 10.4 **VOC** .00 **lb/gal solids** 0 **g/l solids** CALCULATED
SPECIFIC GRAVITY 1.2

All Physical data determined at 68 DEG. F. (20 DEG. C.) 760 mm Hg
* Negligibly Photochemically Reactive Materials

SECTION 10 - STABILITY AND REACTIVITY

STABILITY
Normally stable.
CONDITIONS TO AVOID
Avoid excessive heat (>115 F (46 C) and sources of ignition.
INCOMPATABILITY (MATERIALS TO AVOID)
Water
Alkalis & Amines
Strong acids or alkaline materials.
HAZARDOUS DECOMPOSITION PRODUCTS
Burning, including when heated by welding or cutting, will produce smoke, carbon monoxide and carbon dioxide.In addition, oxides of nitrogen ,hydrogen cyanide.,may be generated.
The reaction of isocyanates with water may produce carbon dioxide gas which may result in container pressurization.
HAZARDOUS POLYMERIZATION
Will not occur
CONDITIONS TO AVOID
Avoid high temperatures and high humidity.

SECTION 11 - TOXICOLOGICAL INFORMATION

No information available.

SECTION 12 - ECOLOGICAL INFORMATION

No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

See Section 6.

SECTION 14 - TRANSPORT INFORMATION

MODE	PROPER SHIPPING NAME	CLASS	I.D.#	PKG GRP

ITEM: SIA-173AB **DESC/SIZE:**

DOT DESCRIPTION NOT CURRENTLY AVAILABLE - CONTACT SOVEREIGN HSE DEPARTMENT

NOTE! The assignment of Proper Shipping Names is in part a function of the size of the product container and the transport mode. For example, the Proper Shipping Name for a bulk container can differ significantly from the Proper Shipping Name for the same product packaged in a non-bulk container. This can also be true for products shipped via different modes of transportation (i.e. ground, air, ocean). The descriptions provided above are intended to provide some guidance. However, these descriptions may not apply to your package size or mode of shipment.
The U.S. Code of Federal Regulations, 49 CFR - Transportation, regulations, and the policies established by some transporters, require that the shipper

SECTION 14 - TRANSPORT INFORMATION (Continued)

properly classify and assign a Proper Shipping Name, and label, mark and package the material properly. Therefore, the user of this information is cautioned to consult with applicable regulations, and with qualified advisors prior to the repackaging and or reshipment of this or other any product which contain this product.

SECTION 15 - REGULATORY INFORMATION

All ingredients in this product are listed on the US TSCA Inventory.

WARNING: This product contains
CRYSTALLINE SILICA;
a chemical known to the State of California to cause cancer.

INGREDIENT	CAS NO.	DETAIL INVENTORY LIST INFORMATION
DIPHENYLMETHANE DIISOCYANATE	26447-40-5	TSCA(8d) DSL
DIPHENYLMETHANE DI-ISOCYANATE OLIGOMERS	9016-87-9	TSCA(8d) TSCA(8d term) DSL
DIGLYCIDYL ETHER OF BISPHENOL-A RESIN	25068-38-6	DSL
TALC	14807-96-6	TSCA DSL
CRYSTALLINE SILICA	14808-60-7	DSL
CALCIUM CARBONATE	471-34-1	DSL

DETAIL INVENTORY LIST DESCRIPTION

TSCA/Toxic Substances Control Act
(8d)Health and Safety Reporting Rules
(8d term)Health and Safety Reporting Rules termination
DSL/Canadian Domestic Substance List

SECTION 16 - OTHER INFORMATION

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. WHILE THE INFORMATION IS BELIEVED TO BE RELIABLE, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. SINCE THE USE OF THIS INFORMATION AND THE CONDITIONS AND USE OF THIS PRODUCT ARE CONTROLLED BY THE USER, IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCT.

The Corporate Safety and Environmental Affairs Department is responsible for the preparation of this Material Safety Data Sheet.

NORTHWEST RUBB
ANDY B