



Loctite Corporation
Automotive Group

4450 Cranwood Court
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#313

MATERIAL SAFETY DATA SHEET

NASCO INDUSTRIES, INC.
901 JANESVILLE RD

DATE: 11/19/85
PAGE: 1

FORT ATKINSON, WI 53538

* ATTN: SAFETY SUPERVISOR

I. PRODUCT IDENTIFICATION

PRODUCT NAME: DURO TM SUPER GLUE
PART NO.: SUP-1 UPC CODE: (79340)- 01801
 SUP-101 81273
 SUP-102 81272
 SUP-12 81763
 SUP-2 81217
 SUP-2M 81217

PRODUCT TYPE: CYANOACRYLATE ADHESIVE

II. COMPOSITION

INGREDIENTS	% BY WT.	HAZARD
ETHYL CYANOACRYLATE	95+	SEE SECTION IV
POLY (METHYL METHACRYLATE)*	<5	SEE SECTION IV
HYDROQUINONE	<0.5	SEE SECTION IV

PURE POLY (METHYL METHACRYLATE) HAS BEEN SHOWN TO CAUSE TUMORS IN EXPERIMENTAL ANIMALS WHEN IMPLANTED BENEATH THE SKIN. IN LIGHT OF LOW CONCENTRATION OF THIS COMPONENT IN THE PRODUCT, IT IS OUR BEST TECHNICAL JUDGMENT THAT NORMAL USE OF THIS PRODUCT POSES NO SUCH HAZARD.

III. CHEMICAL AND PHYSICAL PROPERTIES

VAPOR PRESSURE: <2MM @ 75 DEG F	SPECIFY GRAVITY: 1.05 @ 75 DEG F
VAPOR DENSITY: APPROX. 3	BOILING POINT: >300 DEG F
SOLUBILITY IN WATER: POLYMERIZED BY WATER	PH: DOES NOT APPLY
APPEARANCE: CLEAR LIQUID	ODOR: SHARP, IRRITATING

IV. TOXICITY AND HEALTH HAZARD DATA

TOXICITY:
IRRITATES SKIN RAPIDLY AND STRONGLY.
SKIN AND EYE IRRITANT
LOW TOXICITY BY INGESTION.

LV: 2PPM

054192



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HAZARDOUS DECOMPOSITION PRODUCTS (NON-THERMAL):
NONE KNOWN

INCOMPATIBILITY:
OXIDIZING AGENTS

VII. SPILL OR LEAK AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:
SCRAPE UP RESIDUE WITH ABSORBENT MATERIAL AND STORE IN CLOSED
CONTAINER UNTIL DISPOSAL.

RECOMMENDED METHODS OF DISPOSAL:
LANDFILL OR INCINERATE FOLLOWING EPA AND LOCAL REGULATIONS.

VIII. STORAGE AND HANDLING PROCEDURES

STORAGE:
STORE IN COOL, DRY PLACE

HANDLING:
AVOID SKIN CONTACT. KEEP AWAY FROM EYES.

IX. SHIPPING REGULATIONS

TYPE OR CLASS DOT: UNRESTRICTED
 IATA: UNRESTRICTED
PROPER SHIPPING NAME
 DOT:
 IATA:

PREPARED BY: ROBERT J. CARTER

TITLE: DIR., CONSUMER AND TECHNICAL AFFAIRS

DATE: 11/01/85

SUPERSEDES: NEW ISSUE



Loctite Corporation

MATERIAL SAFETY DATA

INFORMATION WILL BE TREATED AS CONFIDENTIAL

SECTION I MATERIAL IDENTIFICATION NAME: **Super Glue** PART NO: **SUP-1, SUP-5, GM-1, SUP-102**
 MANUFACTURER'S NAME: **Loctite Corporation** CONTACT TELEPHONE NO: **(216) - 475-3800**

ADDRESS: **4450, Cranwood Court, Cleveland, Ohio 44128**
 CHEMICAL NAME AND SYNONYMS: **Duro(TM) Super Glue**
 CHEMICAL FAMILY: **Cyanoacrylate Adhesive** FORMULA NUMBER:

SECTION II CHEMICAL AND PHYSICAL PROPERTIES (SEE ADDITIONAL SHEETS IF NECESSARY)
 MOLECULAR WT: **3** BOILING POINT: **> 300 °F** MELTING POINT: **°F** SPECIFIC GRAVITY (WATER = 1.000) @ 20 °C: **1.096 @ 80 °F**
 VAPOR DENSITY (AIR = 1): **3** VAPOR PRESSURE (mm Hg): **2 @ 80 °F** INDEX OF REFRACTION: **°F**
 SOLUBILITY: **Pungent, clear liquid** INDEX OF REFRACTION: **°F**
 CORROSIVE ACTION ON MATERIALS (AC, ALUMINUM, COPPER BRASS, COPPER, FIBERGLASS, PAPER, PLY):

DOES THE MATERIAL DECOMPOSE UNDER STRESS? AIR: YES NO WATER: YES NO HEAT: YES NO STRONG OXIDIZERS: YES NO POSSIBLE PRODUCTS PRODUCED ON DECOMP.:

SECTION III FLAMMABILITY AND EXPLOSIVE PROPERTIES
 CLOSED CUP FLASH POINT: **> 200 °F** METAFLASH: YES NO IF FLASH POINT CHANGES DURING EVAPORATION GIVE DATA:
 EXPLOSIVE LIMITS: LOWER: **%** UPPER: **%** SUSCEPTIBILITY TO SPONTANEOUS HEATING: YES NO FIRE POINT: **°F** SUITABLE EXTINGUISHING AGENTS: **CO₂, Foam, Dry Chemical**
 WHAT PRODUCTS MIGHT BE FORMED IN THE EVENT OF FIRE OR ABNORMAL TEMPERATURES:
 UNUSUAL FIRE OR EXPLOSIVE HAZARDS: COMPRESSED GASES: YES NO ROOM TEMPERATURE: **°F**

SECTION IV COMPOSITION GIVE CHEMICAL NAMES OF COMPONENTS. IT IS IMPORTANT TO KNOW WHETHER ALCOHOL IS METHANOL AN AROMATIC HYDROCARBON IS BENZENE, A CHLORINATED MATERIAL IS CARBON TETRACHLORIDE.

HAZARDOUS MATERIALS Must include any ingredients which are regulated or otherwise controlled due to their hazardous or toxic nature.

	% by Weight	Permissible Exposure Limit	Oxidizer	Toxic	Flammable	Combustible	Corrosive	Radioactive	Sensitizer	Magnetic	Irritant
Ethyl Cyanoacrylate	95+	2ppm	* X								

Regulated by and reference number:

SECTION V HEALTH HAZARD DATA
 PERMISSIBLE EXPOSURE LIMITS: **2 ppm vapor pressure < 2mm Hg** * Very low volatility. Can be humanly detected at **1ppm**.
 EFFECTS OF OVEREXPOSURE: **Irritation to mucous membranes and eyes.**

EMERGENCY AND FIRST AID PROCEDURES:
 Skin/eye contact: **Adhesive bonds skin rapidly and strongly. Flush with copious amounts of water. Obtain medical attention.**

SECTION VI REACTIVITY DATA
 STABILITY: UNSTABLE STABLE CONDITIONS TO AVOID:
 INCOMPATIBILITY (NUMBER TO AVOID): **Polymerized by water, alcohols, amines, alkalis**

HAZARDOUS DECOMPOSITION PRODUCTS:

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Flood with water to polymerize. Polymer may be disposed of as any solid chemical waste.

WASTE DISPOSAL METHOD(S)

As above.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (NAME / TYPE)

VENTILATION

LOCAL EXHAUST For large quantity use.
(MECHANICAL SYSTEMS)

SPECIAL

OTHER

PROTECTIVE GLOVES (TYPE / NUMBER)

Recommended

EYE PROTECTION

Recommended

OTHER PROTECTIVE EQUIPMENT

SECTION IX SHIPPING REGULATIONS FOR HAZARDOUS MATERIAL

A. IS THE ARTICLE SUBJECT TO SHIPPING REGULATION FOR HAZARDOUS MATERIAL UNDER EACH OF THE FOLLOWING MODES (I)
NOTE: (IL) (SL) (PL) (ML) REFER TO INSTRUCTIONS MATERIAL SAFETY DATA SECTION IX

RAIL TRUCK	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	BUS AIR (B)	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PARCEL POST WATER CARRIER	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	UNITED PARCEL	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
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B. IF ANY MODES IN "A." IS ANSWER "YES", COMPLETE THIS SECTION IF NECESSARY ATTACH ADDITIONAL DETAIL SHEET

TYPE OR CLASS DESCRIBED IN THE REGULATIONS		PROPER SHIPPING NAME (TRUE CHEMICAL OR OTHER NAME AS LISTED IN THE REGULATIONS)	
TYPE OF PACKING CONTAINER	SIZE OR QUANTITY IN PACKAGE	MAXIMUM QUANTITY OR GROSS WEIGHT LIMITS FOR FOLLOWING MODES	
OUTER CONTAINER DESCRIPTION (I)	SPEC. NO. IF PUBLISHED IN REGULATIONS	RAIL _____	BUS _____
		TRUCK _____	PARCEL POST _____
		WATER CARRIER _____	UNITED PARCEL _____
		AIR _____	
MARKING REQUIREMENTS FOR OUTER CONTAINER		LABEL REQUIRED IF NOT EXEMPT	
MODE	MARKING	MODE	LABEL
<input type="checkbox"/> RAIL		<input type="checkbox"/> RAIL	
<input type="checkbox"/> TRUCK		<input type="checkbox"/> TRUCK	
<input type="checkbox"/> WATER CARRIER		<input type="checkbox"/> WATER CARRIER	
<input checked="" type="checkbox"/> AIR		<input type="checkbox"/> AIR	
<input type="checkbox"/> BUS		<input type="checkbox"/> BUS	
<input type="checkbox"/> PARCEL POST		<input type="checkbox"/> PARCEL POST	
<input type="checkbox"/> UNITED PARCEL		<input type="checkbox"/> UNITED PARCEL	

C. SHIPPING PAPERS OR DOCUMENTS INFORMATION USE ADDITIONAL SHEETS IF NECESSARY FOR DETAILS

CERTIFICATE REQUIRED CHARGED PRESSURE (PSI) _____

YES NO

SPECIAL STOWAGE REQUIREMENT OR INSTRUCTION FOR CARRIER

YES NO

OTHER INFORMATION SUCH AS RESTRICTIONS FOR SHIPMENT VIA CARGO AIRCRAFT ONLY

IF YES, SPECIFY THOSE REQUIREMENT SUCH AS TEMPERATURE LIMITS LOCATION ON CARRIER VEHICLE, EXPOSURE OR STOWAGE MARKING INSTRUCTIONS, ETC.

SECTION X SPECIAL PRECAUTION & CONCLUSION

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Avoid contact with skin and eyes. Avoid prolonged breathing of vapor.

Store at 72°F or below.

BY David Sizer
TITLE Manager Technical Services
DATE May 12, 1983