



LOCTITE 401 SURF. INSENS.INSTANT AD. KNOWN AS LOCTITE 401 INSTANT ADHESIV, 40140

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Safety Data Sheet

**Supply Co. - LOCTITE 401 SURF. INSENS.INSTANT AD. KNOWN AS LOCTITE
401 INSTANT ADHESIV, 40140**

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SAFETY DATA SHEET

HENKEL

REVISION NUMBER: 003.0

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-----1. PRODUCT AND COMPANY IDENTIFICATION -----

PRODUCT NAME:

LOCTITE 401 SURF. INSENS.INSTANT AD. KNOWN AS LOCTITE(R*) 401(TM) INSTANT

ADHESIVE

PRODUCT TYPE: CYANOACRYLATE

RESTRICTION OF USE: NONE IDENTIFIED

IDH NUMBER: 135429

ITEM NUMBER: 40140

REGION: UNITED STATES

COMPANY ADDRESS:

HENKEL CORPORATION

ONE HENKEL WAY

ROCKY HILL, CONNECTICUT 06067

CONTACT INFORMATION:

TELEPHONE: (860) 571-5100

MEDICAL EMERGENCY PHONE:

POISON CONTROL CENTER: 1-877-671-4608 (TOLL FREE) OR 1-303-592-1711

TRANSPORT EMERGENCY PHONE:

CHEMTREC: 1-800-424-9300 (TOLL FREE) OR 1-703-527-3887

INTERNET: WWW.HENKELNA.COM

-----2. HAZARDS IDENTIFICATION -----

EMERGENCY OVERVIEW:

WARNING:

BONDS SKIN IN SECONDS.

COMBUSTIBLE LIQUID.

CAUSES EYE IRRITATION.

MAY CAUSE RESPIRATORY IRRITATION.

HAZARD CLASS

HAZARD CATEGORY

FLAMMABLE LIQUID

4

EYE IRRITATION

2B

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE 3

PICTOGRAM(S): EXCLAMATION MARK

PRECAUTIONARY STATEMENTS:

PREVENTION:

KEEP AWAY FROM HEAT, SPARKS, OPEN FLAMES, HOT SURFACES - NO SMOKING. AVOID BREATHING VAPORS, MIST, OR SPRAY. WASH THOROUGHLY AFTER HANDLING. USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA. WEAR PROTECTIVE GLOVES, EYE PROTECTION, AND FACE PROTECTION.

RESPONSE:

IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING.

IF IN EYES:

RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO REMOVE. CONTINUE RINSING. CALL A POISON CONTROL CENTER OR PHYSICIAN IF YOU FEEL UNWELL.

IF EYE IRRITATION PERSISTS: GET MEDICAL ATTENTION.

IN CASE OF FIRE: USE FOAM, DRY CHEMICAL OR CARBON DIOXIDE TO EXTINGUISH.

STORAGE:

STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED. STORE IN A WELL-VENTILATED PLACE. KEEP COOL. STORE LOCKED UP.

DISPOSAL:

DISPOSE OF CONTENTS AND/OR CONTAINER ACCORDING TO FEDERAL, STATE/PROVINCIAL AND LOCAL GOVERNMENTAL REGULATIONS.

CLASSIFICATION COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) AND IS CONSISTENT WITH THE PROVISIONS OF THE UNITED NATIONS GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELING OF CHEMICALS (GHS).

SEE SECTION 11 FOR ADDITIONAL TOXICOLOGICAL INFORMATION.

-----3. COMPOSITION / INFORMATION ON INGREDIENTS -----

HAZARDOUS COMPONENT(S)	CAS NUMBER	PERCENTAGE*
ETHYL 2-CYANOACRYLATE	7085-85-0	60 - 100
THICKENER	PROPRIETARY	5 - 10

* EXACT PERCENTAGE IS A TRADE SECRET. CONCENTRATION RANGE IS PROVIDED TO ASSIST USERS IN PROVIDING APPROPRIATE PROTECTIONS.

-----4. FIRST AID MEASURES -----

INHALATION:

MOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF SYMPTOMS DEVELOP AND PERSIST, GET MEDICAL ATTENTION.

SKIN CONTACT:

DO NOT PULL BONDED SKIN APART. SOAK IN WARM SOAPY WATER. GENTLY PEEL APART USING A BLUNT INSTRUMENT. IF SKIN IS BURNED DUE TO THE RAPID GENERATION OF HEAT BY A LARGE DROP, SEEK MEDICAL ATTENTION. IF LIPS ARE BONDED, APPLY WARM WATER TO THE LIPS AND ENCOURAGE WETTING AND PRESSURE FROM SALIVA IN MOUTH. PEEL OR ROLL LIPS APART. DO NOT PULL LIPS APART WITH DIRECT OPPOSING FORCE.

EYE CONTACT:

IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. IF EYELIDS ARE BONDED CLOSED, RELEASE EYELASHES WITH WARM WATER BY COVERING WITH A WET PAD. DO NOT FORCE EYE OPEN. CYANOACRYLATE WILL BOND

TO EYE PROTEIN AND WILL CAUSE A LACHRYMATORY EFFECT WHICH WILL HELP TO DEBOND THE ADHESIVE. KEEP EYE COVERED UNTIL DEBONDING IS COMPLETE, USUALLY WITHIN 1-3 DAYS. MEDICAL ATTENTION SHOULD BE SOUGHT IN CASE SOLID PARTICLES OF POLYMERIZED CYANOACRYLATE TRAPPED BEHIND THE EYELID CAUSED ABRASIVE DAMAGE.

INGESTION:

ENSURE BREATHING PASSAGES ARE NOT OBSTRUCTED. THE PRODUCT WILL POLYMERIZE RAPIDLY AND BOND TO THE MOUTH MAKING IT ALMOST IMPOSSIBLE TO SWALLOW. SALIVA WILL SEPARATE ANY SOLIDIFIED PRODUCT IN SEVERAL HOURS. PREVENT THE PATIENT FROM SWALLOWING ANY SEPARATED MASS.

SYMPTOMS: SEE SECTION 11.

NOTES TO PHYSICIAN:

SURGERY IS NOT NECESSARY TO SEPARATE ACCIDENTALLY BONDED TISSUES. EXPERIENCE HAS SHOWN THAT BONDED TISSUES ARE BEST TREATED BY PASSIVE, NON-SURGICAL FIRST AID. IF RAPID CURING HAS CAUSED THERMAL BURNS THEY SHOULD BE TREATED SYMPTOMATICALLY AFTER ADHESIVE IS REMOVED.

-----5. FIRE FIGHTING MEASURES -----

EXTINGUISHING MEDIA:

WATER SPRAY (FOG), FOAM, DRY CHEMICAL OR CARBON DIOXIDE.

SPECIAL FIREFIGHTING PROCEDURES:

FIRE FIGHTERS SHOULD WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA).

UNUSUAL FIRE OR EXPLOSION HAZARDS: NOT AVAILABLE.

HAZARDOUS COMBUSTION PRODUCTS:

TRACE AMOUNTS OF TOXIC AND/OR IRRITATING FUMES MAY BE RELEASED AND THE USE OF BREATHING APPARATUS IS RECOMMENDED.

-----6. ACCIDENTAL RELEASE MEASURES -----

USE PERSONAL PROTECTION RECOMMENDED IN SECTION 8, ISOLATE THE HAZARD AREA AND DENY ENTRY TO UNNECESSARY AND UNPROTECTED PERSONNEL.

ENVIRONMENTAL PRECAUTIONS: DO NOT ALLOW PRODUCT TO ENTER SEWER OR WATERWAYS.

CLEAN-UP METHODS:

DO NOT USE CLOTHS FOR MOPPING UP. FLOOD WITH WATER TO COMPLETE

POLYMERIZATION AND SCRAPE OFF THE FLOOR. CURED MATERIAL CAN BE DISPOSED OF AS NON-HAZARDOUS WASTE. REFER TO SECTION 8 "EXPOSURE CONTROLS / PERSONAL PROTECTION" PRIOR TO CLEAN UP.

-----7. HANDLING AND STORAGE -----

HANDLING:

AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING VAPORS OR MISTS OF THIS PRODUCT. WASH THOROUGHLY AFTER HANDLING. AVOID CONTACT WITH FABRIC OR PAPER GOODS. CONTACT WITH THESE MATERIALS MAY CAUSE RAPID POLYMERIZATION WHICH CAN GENERATE SMOKE AND STRONG IRRITATING VAPORS, AND CAUSE THERMAL BURNS.

STORAGE:

KEEP IN A COOL, WELL VENTILATED AREA AWAY FROM HEAT, SPARKS AND OPEN FLAME. KEEP CONTAINER TIGHTLY CLOSED UNTIL READY FOR USE.

FOR INFORMATION ON PRODUCT SHELF LIFE CONTACT HENKEL CUSTOMER SERVICE AT (800) 243-4874.

-----8. EXPOSURE CONTROLS / PERSONAL PROTECTION -----

EMPLOYERS SHOULD COMPLETE AN ASSESSMENT OF ALL WORKPLACES TO DETERMINE THE NEED FOR, AND SELECTION OF, PROPER EXPOSURE CONTROLS AND PROTECTIVE EQUIPMENT FOR EACH TASK PERFORMED.

HAZARDOUS COMPONENT(S)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
ETHYL 2-CYANOACRYLATE	0.2 PPM TWA	NONE	NONE	NONE
THICKENER	NONE	NONE	NONE	NONE

ENGINEERING CONTROLS:

USE POSITIVE DOWN-DRAFT EXHAUST VENTILATION IF GENERAL VENTILATION IS INSUFFICIENT TO MAINTAIN VAPOR CONCENTRATION BELOW ESTABLISHED EXPOSURE LIMITS.

RESPIRATORY PROTECTION:

USE NIOSH APPROVED RESPIRATOR IF THERE IS POTENTIAL TO EXCEED EXPOSURE LIMIT(S).

EYE/FACE PROTECTION:

SAFETY GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS. FULL FACE PROTECTION SHOULD BE USED IF THE POTENTIAL FOR SPLASHING OR SPRAYING OF PRODUCT EXISTS.

SKIN PROTECTION:

USE NITRILE GLOVES AND APRONS AS NECESSARY TO PREVENT CONTACT. DO NOT USE
PVC, NYLON OR COTTON.

-----9. PHYSICAL AND CHEMICAL PROPERTIES -----

PHYSICAL STATE: LIQUID

COLOR: COLORLESS, TRANSPARENT

ODOR: SHARP

ODOR THRESHOLD: 1 - 2 PPM

PH: NOT AVAILABLE.

VAPOR PRESSURE: <0.2 MMHg

BOILING POINT/RANGE: >149 DEG. C (>300.2 DEG. F)

MELTING POINT/ RANGE: NOT AVAILABLE.

SPECIFIC GRAVITY: 1.05

VAPOR DENSITY: APPROXIMATE 3

VAPOR DENSITY: 3

FLASH POINT: 80 - 93 DEG. C (176 DEG. F - 199.4 DEG. F)

FLAMMABLE/EXPLOSIVE LIMITS - LOWER: NOT AVAILABLE.

FLAMMABLE/EXPLOSIVE LIMITS - UPPER: NOT AVAILABLE.

AUTOIGNITION TEMPERATURE: 485 DEG. C (905 DEG. F)

EVAPORATION RATE: NOT AVAILABLE.

SOLUBILITY IN WATER: POLYMERISES IN PRESENCE OF WATER.

PARTITION COEFFICIENT (N-OCTANOL/WATER): NOT APPLICABLE

VOC CONTENT: <2%; < 20 G/L (CALIFORNIA SCAQMD METHOD 316B) (ESTIMATED)

VISCOSITY: NOT AVAILABLE.

DECOMPOSITION TEMPERATURE: NOT AVAILABLE.

-----10. STABILITY AND REACTIVITY -----

STABILITY: STABLE UNDER RECOMMENDED STORAGE CONDITIONS.

HAZARDOUS REACTIONS:

RAPID EXOTHERMIC POLYMERIZATION WILL OCCUR IN THE PRESENCE OF WATER, AMINES,
ALKALIS AND ALCOHOLS.

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

INCOMPATIBLE MATERIALS: WATER, AMINES, ALKALIS, ALCOHOLS.

REACTIVITY: NOT AVAILABLE.

CONDITIONS TO AVOID: SPONTANEOUS POLYMERIZATION.

-----11. TOXICOLOGICAL INFORMATION -----

RELEVANT ROUTES OF EXPOSURE: SKIN, INHALATION, EYES

POTENTIAL HEALTH EFFECTS/SYMPTOMS:

INHALATION:

MAY CAUSE RESPIRATORY TRACT IRRITATION. EXPOSURE TO VAPORS ABOVE THE ESTABLISHED EXPOSURE LIMIT RESULTS IN RESPIRATORY IRRITATION, WHICH MAY LEAD TO DIFFICULTY IN BREATHING AND TIGHTNESS IN THE CHEST.

SKIN CONTACT:

MAY CAUSE SKIN IRRITATION. BONDS SKIN IN SECONDS. CYANOACRYLATES HAVE BEEN REPORTED TO CAUSE ALLERGIC REACTION BUT DUE TO RAPID POLYMERIZATION AT THE SKIN SURFACE, AN ALLERGIC RESPONSE IS RARE. CYANOACRYLATES GENERATE HEAT ON SOLIDIFICATION. IN RARE CIRCUMSTANCES A LARGE DROP WILL BURN THE SKIN. CURED ADHESIVE DOES NOT PRESENT A HEALTH HAZARD EVEN IF BONDED TO THE SKIN.

EYE CONTACT: IRRITATING TO EYES. CAUSES EXCESSIVE TEARING. EYELIDS MAY BOND.

INGESTION:

NOT EXPECTED TO BE HARMFUL BY INGESTION. RAPIDLY POLYMERIZES (SOLIDIFIES) AND BONDS IN MOUTH. IT IS ALMOST IMPOSSIBLE TO SWALLOW.

HAZARDOUS COMPONENT(S) LD50S AND LC50S IMMEDIATE AND DELAYED HEALTH

EFFECTS

ETHYL 2-CYANOACRYLATE NONE IRRITANT, ALLERGEN, RESPIRATORY

THICKENER NONE IRRITANT

HAZARDOUS COMPONENT(S) NTP CARCINOGEN IARC CARCINOGEN OSHA CARCINOGEN
(SPECIFICALLY
REGULATED)

ETHYL 2-CYANOACRYLATE NO NO NO

THICKENER NO NO NO

-----12. ECOLOGICAL INFORMATION -----

ECOLOGICAL INFORMATION: NOT AVAILABLE.

-----13. DISPOSAL CONSIDERATIONS -----

INFORMATION PROVIDED IS FOR UNUSED PRODUCT ONLY.

RECOMMENDED METHOD OF DISPOSAL:

FOLLOW ALL LOCAL, STATE, FEDERAL AND PROVINCIAL REGULATIONS FOR DISPOSAL.

HAZARDOUS WASTE NUMBER: NOT A RCRA HAZARDOUS WASTE.

-----14. TRANSPORT INFORMATION -----

THE TRANSPORT INFORMATION PROVIDED IN THIS SECTION ONLY APPLIES TO THE MATERIAL/FORMULATION ITSELF, AND IS NOT SPECIFIC TO ANY PACKAGE/CONFIGURATION.

U.S. DEPARTMENT OF TRANSPORTATION GROUND (49 CFR):

PROPER SHIPPING NAME: COMBUSTIBLE LIQUID, N.O.S. (CYANOACRYLATE ESTER)

HAZARD CLASS OR DIVISION: COMBUSTIBLE LIQUID

IDENTIFICATION NUMBER: NA 1993

PACKING GROUP: III

INTERNATIONAL AIR TRANSPORTATION (ICAO/IATA):

PROPER SHIPPING NAME:

AVIATION REGULATED LIQUID, N.O.S. (CYANOACRYLATE ESTER)

HAZARD CLASS OR DIVISION: 9

IDENTIFICATION NUMBER: UN 3334

PACKING GROUP: III

EXCEPTIONS:

PRIMARY PACKS CONTAINING LESS THAN 500ML ARE UNREGULATED BY THIS MODE OF
TRANSPORT AND MAY BE SHIPPED UNRESTRICTED.

WATER TRANSPORTATION (IMO/IMDG):

PROPER SHIPPING NAME: NOT REGULATED

HAZARD CLASS OR DIVISION: NONE

IDENTIFICATION NUMBER: NONE

PACKING GROUP: NONE

-----15. REGULATORY INFORMATION -----

UNITED STATES REGULATORY INFORMATION:

TSCA 8 (B) INVENTORY STATUS:

ALL COMPONENTS ARE LISTED OR ARE EXEMPT FROM LISTING ON THE TOXIC SUBSTANCES CONTROL ACT INVENTORY.

TSCA 12 (B) EXPORT NOTIFICATION: NONE ABOVE REPORTING DE MINIMIS

CERCLA/SARA SECTION 302 EHS: NONE ABOVE REPORTING DE MINIMIS

CERCLA/SARA SECTION 311/312:

IMMEDIATE HEALTH, DELAYED HEALTH, FIRE, REACTIVE

CERCLA/SARA SECTION 313: NONE ABOVE REPORTING DE MINIMIS

CALIFORNIA PROPOSITION 65:

NO CALIFORNIA PROPOSITION 65 LISTED CHEMICALS ARE KNOWN TO BE PRESENT.

CANADA REGULATORY INFORMATION:

CEPA DSL/NDSL STATUS:

CONTAINS ONE OR MORE COMPONENTS LISTED ON THE NON-DOMESTIC SUBSTANCES LIST.

ALL OTHER COMPONENTS ARE LISTED ON OR ARE EXEMPT FROM LISTING ON THE

DOMESTIC SUBSTANCES LIST. COMPONENTS LISTED ON THE NDSL MUST BE TRACKED BY

ALL CANADIAN IMPORTERS OF RECORD AS REQUIRED BY ENVIRONMENT CANADA. THEY MAY

BE IMPORTED INTO CANADA IN LIMITED QUANTITIES. PLEASE CONTACT REGULATORY

AFFAIRS FOR ADDITIONAL DETAILS.

-----16. OTHER INFORMATION -----

THIS SAFETY DATA SHEET CONTAINS CHANGES FROM THE PREVIOUS VERSION IN
SECTIONS: NEW SAFETY DATA SHEET FORMAT.

PREPARED BY: CATHERINE BIMLER, REGULATORY AFFAIRS SPECIALIST

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