ITEM: 5E205 - ADHESIVE

PIC REQ: 1005595736

MATERIAL SAFETY DATA SHEET (MSDS)

MSDS: A5791

INGESTION: INGESTION:
ENSURE BREATHING PASSAGES ARE NOT OBSTRUCTED. THE PRODUCT WILL POLYMERIZE
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 PATTENT LOCTITE (R*) MATERIAL SAFETY DATA SHEET FROM SWALLOWING ANY SEPARATED MASS. HENKEL TECHNOLOGLES 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. NOTES TO PHYSICIAN: REVISION DATE: 10/27/2003 ISSUE DATE: 10/27/2003 - 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION - 5. FIRE-FIGHTING MEASURES -PRODUCT NAME: 404 QUICK SET(TM) INSTANT ADHESIVE FLASH POINT: 65 DBG. C (150 DBG. F) TO 93.4 DBG. C (200 DBG. F) TAGLIABUE CLOSED CUP TTFM NUMBER: 46551 AUTOIGNITION TEMPERATURE: 405 DEG. C (905 DEG. F) PRODUCT TYPE: CYANOACRYLATE FLAMMABLE/EXPLOSIVE LIMITS-LOWER %: NOT DETERMINED REGION: UNITED STATES COMPANY ADDRESS: HENKEL LOCTITE CORPORATION 1001 TROUT BROOK CROSSING FLAMMABLE/EXPLOSIVE LIMITS-UPPER %: NOT DETERMINED 1001 TROUT BROOK CROSSING ROCKY HILL, CONNECTICUT 06067 EXTINGUISHING MEDIA: DRY POWDER. FOAM. CARBON DIOXIDE. SPECIAL FIRE FIGHTING PROCEDURES: FIRE FIGHTERS SHOULD WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA). CONTACT INFORMATION: TELEPHONE: 860.571.5100
EMERGENCY TELEPHONE: 860.571.5100
INTERNET: WWW.LOCTITE.COM UNUSUAL FIRE OR EXPLOSION HAZARDS: NONE HAZARDOUS COMBUSTION PRODUCTS: TRACE AMOUNTS OF TOXIC AND/OR IRRITATING FUMES MAY BE RELEASED AND THE USE OF BREATHING APPARATUS IS RECOMMENDED. -2. COMPOSITION/INFORMATION ON INGREDIENTS OSHA PEL ACGIH TLV OTHER HAZARDOUS COMPONENTS 8 NONE NONE 0.2 PPM TWA ETHYL CYANOACRYLATE 60-100 - 6. ACCIDENTAL RELEASE MEASURES -ENVIRONMENTAL PRECAUTIONS: VENTILATE AREA. PREVENT PRODUCT FROM ENTERING THE DRAINS. - 3. HAZARDS IDENTIFICATION -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 Y OVERVIEW: PHYSICAL STATE: LIQUID AS NON-HAZARDOUS WASTE. COLOR: CLEAR COLORLESS - 7. HANDLING AND STORAGE -ODOR: SHARP, IRRITATING HANDLING:
AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING VAPOR AND MIST.
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. HMIS: HEALTH: FLAMMABILITY: 2 PHYSICAL HAZARD: 1 PERSONAL PROTECTION: SEE SECTION 8 STORAGE: KEEP IN A COOL, WELL VENTILATED AREA AWAY FROM HEAT, SPARKS AND OPEN FLAME. KEEP CONTAINER TIGHTLY CLOSED UNTIL READY FOR USE. WARNING MARTING:
BONDS SKIN IN SECONDS.
MAY CAUSE EYE AND RESPIRATORY IRRITATION.
COMBUSTIBLE LIQUID AND VAPOR. INCOMPATIBLE PRODUCTS: NO SPECIAL RESTRICTIONS ON STORAGE WITH OTHER PRODUCTS. RELEVANT ROUTES OF EXPOSURE: SKIN, INHALATION, EYES FOR INFORMATION ON PRODUCT SHELF LIFE CONTACT HENKEL LOCTITE CUSTOMER POTENTIAL HEALTH EFFECTS: SERVICE AT (800) 243-4874. INHALATION . EXPOSURE TO VAPORS ABOVE THE ESTABLISHED EXPOSURE LIMIT RESULTS IN RESPIRATION WHICH MAY LEAD TO DIFFICULTY IN BREATHING AND TICHTNESS IN THE CHEST. — 9. EXPOSURE CONTROLS/PERSONAL PROTECTION -ENGINEERING CONTROLS: USE POSITIVE DOWN-DRAFT EXHAUST VENTILATION IF GENERAL VENTILATION IS INSUFFICIENT TO MAINTAIN VAPOR CONCENTRATION BELOW ESTABLISHED EXPOSURE SKIN CONTACT:

BONDS SKIN IN SECONDS. MAY CAUSE SKIN IRRITATION. CYANOACRYLATES HAVE BEEN BONDS SKIN IN SECONDS. MAY CAUSE SKIN IRRITATION. CYANOACRYLATES HAVE BEEN REPORTED TO CAUSE ALLERGIC RESCONSE IS RAFE. CYANDACRYLATES GENERATE HEAT ON SKIN SURFACE, AN ALLERGIC RESPONSE IS RAFE. CYANDACRYLATES GENERATE HEAT ON SOLIDIFICATION. IN RARE CIRCUMSTANCES A LARGE DROP WILL BURN THE SKIN. CURED ADDRESIVE DOES NOT PRESENT A HEALTH EVEN IF BONDED TO THE SKIN. LIMITS. RESPIRATORY PROTECTION: USE NIOSH APPROVED RESPIRATOR IF THERE IS POTENTIAL TO EXCEED EXPOSURE SKIN PROTECTION:
USE NITRILE CLOVES AND APRONS AS NECESSARY TO PREVENT CONTACT. DO NOT USE PVC, NYLON OR COTTON. EYE CONTACT: IRRITATING TO EYES. CAUSES EXCESSIVE TEARING. EYELLDS MAY BOND. INGESTION! NOT EXPECTED TO BE HARMFUL BY INXESTION. RAPIDLY POLYMERIZES (SOLIDIFIES) AND BONDS IN MOUTH. IT IS ALMOST IMPOSSIBLE TO SWALLOW. EYE/FACE PROTECTION: CHEMICAL SPLASH GOOGLES OR SAFETY CLASSES WITH SIDE SHIELDS. EXISTING CONDITIONS AGGRAVATED BY EXPOSURE: EYE, SKIN, AND RESPIRATORY DISORDERS. SEE SECTION 2 FOR EXPOSURE LIMITS. SEE SECTION 11 FOR ADDITIONAL TOXICOLOGICAL INFORMATION. - 9. PHYSICAL AND CHEMICAL PROPERTIES -- 4. FIRST AID MEASURES -PHYSICAL STATE: LIQUID

> COLOR: CLEAR COLORLESS ODOR: SHARP, IRRITATING

pH: NOT APPLICABLE

VAPOR PRESSURE: LESS THAN 0.2 MM HG

MELITING POINT/RANGE: NOT DETERMINED

BOILING POINT/RANGE: GREATER THAN 149 DEG. C (300 DEG. F)

SPECIFIC GRAVITY: 1.09 AT 23.9 DEG. C (75 DEG. F)

INHALATION:
RF TO FRESH AIR. IF DISCOMPORT PERSISTS SEEK MEDICAL ATTENTION.

SI. ONTACT:

DO NOT PULL BONDED SKIN APART. SOAK IN WARM SOAPY WATER. GENTLY PEEL APART

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USING A BLUMT 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. CYANCACRYLATE WILL BOND
TO EYE PROTEIN AND WILL CAUSE A LACHRYMATORY EFFECT WHICH WILL HELP TO

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APPOR DENSITY: APPROXIMATELY 3
EVAPORATION RATE: NOT AVAILABLE SOLI Y IN WATER: POLYMERIZES IN PRESENCE OF WATER
PARTILLON COEFFICIENT (N-OCTANOL/WATER): NOT APPLICABLE
VOC CONTENT: 93.0%; 1013.7 GRAMS/LITER (EPA METHOD 24) LESS THAN 20 G/L (CALIFORNIA SCAQMD METHOD 316B) (ESTIMATED)
10. STABILITY AND REACTIVITY
STABILITY: STABLE UNDER RECOMMENDED STORAGE CONDITIONS.
HAZARDOUS POLYMERIZATION: RAPID EXCITERMIC POLYMERIZATION WILL OCCUR IN THE PRESENCE OF WATER, AMINES, ALKALIS AND ALCOHOLS.
HAZARDOUS DECOMPOSITION PRODUCTS: NONE
INCOMPATABILITY: WATER, AMINES, ALKALIS AND ALCOHOLS.
CONDITIONS TO AVOID: SPONTANEOUS POLYMERIZATION
11. TOXICOLOGICAL INFORMATION
PRODUCT TOXICITY DATA: ACUTE ORAL LD50 >5000 MG/KG (RAT) (ESTIMATED). ACUTE DERMAL LD50 >2000 MG/KG (RABBIT) (ESTIMATED).
CARCINGEN STATIS:
HAZARDOUS COMPONENTS: ETHYL CYANOACRYLATE NTP CARCINGEN: NO LARC CARCINGEN: NO OSHA CARCINGEN: NO
LITERATURE REPERENCED TARGET ORGAN & OTHER HEALTH EFFECTS: HAZARDOUS COMPONENTS: EIHYL CYANOACRYLATE HEALTH EFFECTS/TARGET ORGANS: ALLERGEN, IRRITANT, RESPIRATORY
12, ECOLOGICAL INFORMATION
ECOLOGICAL INFORMATION: NOT KNOWN
13. DISPOSAL CONSIDERATIONS -
INFORMATION PROVIDED IS FOR UNUSED PRODUCT ONLY.
RECOMMENDED METHOD OF DISPOSAL: DIF OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
EPA. ARDOUS WASTE NUMBER: NOT A RCRA HAZARDOUS WASTE.
14. TRANSPORT INFORMATION
U.S. DEPARIMENT OF TRANSPORTATION GROUND (49 CFR); PROPER SHIPPING NAME: COMBUSTIBLE LIQUIDS, N.O.S. (CYANOACRYLATE ESTER) HAZARD CLASS OR DIVISION: 3 IDENTIFICATION NUMBER: NA 1993 PACKING GROUP: NONE EXCEPTIONS: (NOT MORE THAN 450 LITERS) UNRESTRICTED MARINE POLLUTANT: NONE
INTERNATIONAL AIR TRANSPORTATION (ICAO/LATA): PROPER SHIPPING NAME: AVIATION REGULATED LIQUIDS, N.O.S (CYANGACRYLATE ESTER) HAZARD CLASS OR DIVISION: 9
HAZARD CLASS OR DIVISION: 9 IDENTIFICATION NUMBER: UN 3334 PACKING GROUP: III
EXCEPTIONS: (NOT MORE THAN 500 ML) UNRESTRICTED WATER TRANSPORTATION (IMO/IMDG): PROPER SHIPPING NAME: UNRESTRICTED HAZARD CLASS OR DIVISION: NOME IDENTIFICATION NUMBER: NONE PACKING GROUP: NOME
MARINE POLLUTANI: 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 SUBSTANCE CONTROL ACT INVENTORY.
TSCA 5 (A) (2) SNUR: NONE.
TSCA 12 (B) EXPORT NOTIFICATION: NONE.
CERCLA/SARA SECTION 302 EHS: NONE ABOVE REPORTING DE MINIMUS.
CERCLA/SARA SECTION 311/312: IMMEDIATE HEALTH HAZARD, DELAYED HEALTH HAZARD, FIRE, REACTIVE
CERCLA/SARA 313:

NG. THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORT REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RULL TO-KNOW ACT OF 1986 (40 CFR 372). NONE ABOVE REPORTING DE MINIMUS.

RNIA PROPOSITION 65: __LIFTENIA PROPOSITION 65 LISTED CHEMICALS ARE KNOWN TO BE PRESENT.

CANADA REGULATORY INFORMATION:

CEPA DSL/NDSL STATUS: ALL COMPONENTS ARE LISTED ON OR ARE EXEMPT FROM LISTING ON THE DOMESTIC SUBSTANCES LIST.

WHMIS HAZARD CLASS: B.3, D.2.A, D.2.B

- 16. OTHER INFORMATION

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

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ITEM NUMBER: 46551

PRODUCT NAME: 404 QUICK SET(TM) INSTANT ADHESIVE