

*** MATERIAL SAFETY DATA SHEET ***

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME.....

ULTRA HOLD ADHESIVE

Walker Tape Co. Inc.
9620 Hawley Park Rd.
West Jordan, UT 84088

Emergency contact number.
Info Trak 800-535-5053 (24 Hours)

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL FAMILY.....		Liquid Adhesive
COMPONENT	CAS NUMBER	CONCENTRATION RANGES (%)
Toluene	108-88-3	2.6
Ethyl acetate	141-78-6	17.4
n-Heptane	142-82-5	14.0
Isopropanol	67-63-0	18.1

3. HAZARDS IDENTIFICATION

EYE IRRITANT. EXTREMELY FLAMMABLE.

EYE..... Irritating, and may injure eye tissue if not removed promptly.

SKIN CONTACT..... Frequent or prolonged contact may irritate and cause dermatitis. Repeated or prolonged contact may cause defatting of the skin, which may lead to skin irritation and/or dryness.

INHALATION..... Overexposure may be irritating to respiratory passages and cause other effects such as eye irritation or

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3. HAZARDS IDENTIFICATION (Continued)

INGESTION..... nausea. Care should be taken not to exceed the TLV.
Irritating to mouth, throat and stomach. May cause gastric tract disorder and/or damage. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting, may cause bronchopneumonia or pulmonary edema.

4. FIRST-AID MEASURES

EYE..... Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids. Get prompt medical attention.

SKIN CONTACT..... Flush with large amounts of water; use soap if available. Remove grossly contaminated clothing, including shoes, and launder before re-use. Discard shoes. If irritation persists, get medical attention.

INHALATION..... Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention.

INGESTION..... DO NOT induce vomiting. If individual is conscious, give milk or water to dilute stomach contents. Keep warm and quiet. Get prompt medical attention.

5. FIREFIGHTING MEASURES

AUTOIGNITION..... Not available.

FLASH POINT..... <20 F (Setaflash Closed Tester)

EXTINGUISHING MEDIA..... Dry chemical; CO₂; Water fog; Foam

SPECIAL FIREFIGHTING PROCEDURES.... Fire fighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes; Cool exposed equipment with water spray

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5. FIREFIGHTING MEASURES (Continued)

FIRE & EXPLOSION HAZARDS.....	Vapors are heavier than air and may travel a considerable distance to a source of ignition and flash back. Combustion may release noxious or toxic vapors. See Reactivity.
UPPER EXPLOSION LIMIT (%).....	13.0
LOWER EXPLOSION LIMIT (%).....	1.3
NFPA FLAMMABILITY HAZARD CLASS.....	4 = Extreme

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES.....	Shut off ignition sources. Stop leak if you can do it without risk. For small liquid spills, take up with sand or other absorbent material. For larger spills, dike far ahead of spill for later disposal. No smoking, flames or flares in hazard area! Keep unnecessary people away.
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For safety and environmental precautions, please review entire Material Safety Data Sheet for necessary information.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE.....	room temp.
HANDLING/STORAGE.....	Store in a cool, dry area away from heat, sparks or fire.
VENTILATION REQUIREMENTS.....	Local; Explosion-proof exhaust ventilation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT

EXPOSURE LIMITS

Toluene

50 ppm (skin) (ACGIH-TWA)
100 ppm (OSHA-PEL)
300 ppm (OSHA-Ceiling)

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION (Continued)

Ethyl acetate	400 ppm (ACGIH-TWA) 400 ppm (OSHA-PEL)
n-Heptane	400 ppm (ACGIH-TWA) 500 ppm (ACGIH-STEL) 400 ppm (OSHA-PEL) 500 ppm (OSHA-STEL)
Isopropanol	400 ppm (ACGIH-TWA) 500 ppm (ACGIH-STEL) 400 ppm (OSHA-PEL) 500 ppm (OSHA-STEL)
VENTILATION REQUIREMENTS.....	Local; Explosion-proof exhaust ventilation.
EYE PROTECTION REQUIREMENTS.....	Wear chemical goggles.
GLOVE REQUIREMENTS.....	Impervious neoprene or rubber gloves are recommended.
CLOTHING REQUIREMENTS.....	Standard industrial hygiene procedures should be practiced.
CHANGE/REMOVAL OF CLOTHING.....	Change clothing, if contaminated, to prevent skin contact with adhesive. Launder clothing before reuse.
WASH REQUIREMENTS.....	Wash before eating, drinking, smoking, or using toilet facilities.
RESPIRATOR REQUIREMENTS.....	Avoid prolonged or repeated breathing of vapor or mists. If exposure may or does exceed occupational exposure limits, use a NIOSH approved respirator to prevent overexposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

PURE SUBSTANCE OR MIXTURE.....	Mixture
PHYSICAL FORM.....	Liquid
APPEARANCE/ODOR.....	Clear, moderately viscous liquid, characteristic hydrocarbon/ester odor
ODOR THRESHOLD.....	Not available.
MOLECULAR WEIGHT.....	N/A (not applicable)
PH AS IS.....	N/A
pH IN (1%) SOLUTION.....	N/A
BOILING POINT.....	150 F

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9. PHYSICAL AND CHEMICAL PROPERTIES (Continued)

MELTING/FREEZING POINT.....	N/A
SOLUBILITY IN WATER.....	Slightly soluble
PARTITION COEFFICIENT	
(n-octanol/water).....	Not Applicable
SPECIFIC GRAVITY (WATER=1).....	0.840
BULK DENSITY.....	7.0 lbs/gal
EVAPORATION RATE.....	>1 (Butyl acetate)
VAPOR PRESSURE (mmHg).....	180 (20 C)
VAPOR DENSITY (air = 1).....	Approx. 3
VOLATILES.....	55% by wt.
VOLATILE ORGANIC COMPOUNDS.....	3.85 lbs/gal (462 g/l)
AUTOIGNITION.....	Not available.
FLASH POINT.....	<20 F (Setaflash Closed Tester)
OXIDIZING PROPERTIES.....	Not Applicable

10. STABILITY AND REACTIVITY

STABILITY.....	Stable
MATERIALS TO AVOID.....	Strong oxidizers, acids or bases
NFPA REACTIVITY HAZARD CLASS.....	0 = Insignificant
HAZARDOUS DECOMPOSITION PRODUCTS...	Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.

11. TOXICOLOGICAL INFORMATION

CHRONIC (LONG TERM) EFFECTS OF EXPOSURE

ROUTE OF ENTRY.....	Inhalation; Ingestion; Skin contact; Eye contact
EFFECTS OF CHRONIC EXPOSURE.....	Product contains residual vinyl acetate, an IARC 2B possible human carcinogen. Vinyl acetate vapors have been shown to cause tumors in the respiratory tract of laboratory animals exposed to 600ppm over a lifetime; 200ppm causes irritation; 50ppm produces no observable effect. There is no evidence of adverse effects to humans exposed to levels at or below the ACGIH TLV.

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11. TOXICOLOGICAL INFORMATION (Continued)

TARGET ORGANS..... Central nervous system; Liver;
Blood/hematopoietic; Kidneys; Lungs;
Cardiovascular system
CARCINOGEN..... No.

TOXICOLOGY INFORMATION

RAW MATERIAL NAME..... Toluene
ORAL LD50, SPECIES TESTED..... 5.0 g/kg Rat
NOTES ON ORAL TOXICITY..... Irritating to mouth, throat and
stomach. May cause gastric tract
disorder and/or damage. Small
amounts of liquid aspirated into the
respiratory system during ingestion
or from vomiting, may cause
bronchopneumonia or pulmonary edema.
DERMAL LD50, SPECIES TESTED..... 12.1 mg/kg Rabbit
NOTES ON DERMAL TOXICITY..... May be absorbed through the skin.
Irritating to the skin.
INHALATION LC50, SPECIES TESTED.... 5320.0 ppm 8.00 hours Mouse
NOTES ON INHALATION TOXICITY..... Irritating to eyes and respiratory
tract. Prolonged exposure to high
levels can cause headache,
dizziness, drowsiness and other
nervous system effects.
NOTES ON EYE IRRITATION..... Irritating, and may injure eye
tissue if not removed promptly.
OTHER NOTES ON TOXICITY..... Exposure and /or contact with this
chemical may cause reproductive or
fetotoxic effects.

RAW MATERIAL NAME..... Ethyl acetate
ORAL LD50, SPECIES TESTED..... 5.6 g/kg Rat; 4.1 g/kg Mouse
NOTES ON ORAL TOXICITY..... Low order of toxicity.
NOTES ON DERMAL TOXICITY..... Repeated or prolonged contact may
cause defatting of the skin, which
may lead to skin irritation and/or
dryness.
INHALATION LC50, SPECIES TESTED.... 16000.0 mg/m3 6.00 hours Rat;
>31000.0 mg/m3 2.00 hours Mouse
NOTES ON INHALATION TOXICITY..... High vapor concentrations are
irritating to the eyes and the
respiratory tract. May cause
headaches and dizziness, are
anesthetic and may have other
central nervous system effects. High

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11. TOXICOLOGICAL INFORMATION (Continued)

	vapor concentrations are irritating to the eyes and the respiratory tract. May cause headaches and dizziness, are anesthetic and may have other central nervous system effects.
NOTES ON EYE IRRITATION.....	Irritating, and may injure eye tissue if not removed promptly.
AQUATIC TOXICITY, SPECIES TESTED...	2500.000 mg/l 96.00 hours Daphnia Magna
RAW MATERIAL NAME.....	n-Heptane
NOTES ON ORAL TOXICITY.....	Low order of toxicity. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting, may cause bronchopneumonia or pulmonary edema.
NOTES ON DERMAL TOXICITY.....	Frequent or prolonged contact may irritate and cause dermatitis. Repeated or prolonged contact may cause defatting of the skin, which may lead to skin irritation and/or dryness. Corrosive, causes permanent skin damage.
NOTES ON INHALATION TOXICITY.....	Avoid breathing vapors or mists. High vapor concentrations are irritating to the eyes and the respiratory tract. May cause headaches and dizziness, are anesthetic and may have other central nervous system effects.
NOTES ON EYE IRRITATION.....	Irritating, but does not injure eye tissue.
RAW MATERIAL NAME.....	Isopropanol
ORAL LD50, SPECIES TESTED.....	3.6 g/kg Mouse; 5.0 g/kg Rat
NOTES ON ORAL TOXICITY.....	May cause symptoms of alcoholic intoxication, which progresses soon to vomiting, nausea, diarrhea, and abdominal pain.
DERMAL LD50, SPECIES TESTED.....	13.0 g/kg Rabbit
NOTES ON DERMAL TOXICITY.....	Frequent or prolonged contact may irritate and cause dermatitis. Repeated or prolonged contact may cause defatting of the skin, which may lead to skin irritation and/or dryness. May be absorbed through the

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11. TOXICOLOGICAL INFORMATION (Continued)

INHALATION LC50, SPECIES TESTED.... skin.
>16000.0 ppm 4.00 hours Rat
NOTES ON INHALATION TOXICITY..... Prolonged exposure to high levels
can cause headache, dizziness,
drowsiness and other nervous system
effects. Vapors and/or aerosols may
cause irritation.
NOTES ON EYE IRRITATION..... Irritating, and may injure eye
tissue if not removed promptly.

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS..... Waste disposal should be in
accordance with existing federal,
state and local environmental
regulations.
EMPTY CONTAINER WARNINGS..... Empty containers may contain product
residue; follow MSDS and label
warnings even after they have been
emptied.

14. TRANSPORTATION INFORMATION

DOT INFORMATION

DOT SHIPPING NAME..... ADHESIVE
DOT HAZARD CLASS..... FLAMMABLE LIQUID
DOT REPORTABLE QUANTITY..... 1000 LB.

UNITED NATIONS INFORMATION

U.N. NUMBER..... 1133
U.N. CLASS..... 3

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15. REGULATORY INFORMATION

TSCA..... All components are on the TSCA inventory.
STATE LAWS..... California Proposition 65: May contain a trace amount of benzene which is known to the state of California to cause cancer.

SARA/TITLE III, THIS PRODUCT CONTAINS (OR IS) A TOXIC CHEMICAL FOR ROUTINE ANNUAL CHEMICAL RELEASE REPORTING UNDER SECTION 313:

TOLUENE CAS# 108-88-3 2.6%

The information given and the recommendations made herein apply to our product(s) alone and are not combined with other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guaranty of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.

FOR CHEMICAL EMERGENCY
Call INFOTRAC
1-800-535-5053
24Hrs. per day, 7 days per week