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**Arch
Chemicals,
Inc.**

SAFETY DATA SHEET

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:	1-800-654-6911 (OUTSIDE USA: 1-423-780-2970)
FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:	1-800-424-9300 (OUTSIDE USA: 1-703-527-3887)
FOR ALL SDS QUESTIONS & REQUESTS, CALL:	1-800-511-MSDS (OUTSIDE USA: 1-423-780-2347)

PRODUCT NAME: **HTH® VINYL REPAIR KIT**

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Arch Chemicals, Inc. 1200 Bluegrass Lakes Parkway Alpharetta, GA 30004	REVISION DATE:	03/24/2017
	SUPERCEDES:	08/13/2013
	MSDS Number:	000000024258
	SYNONYMS:	none
	CHEMICAL FAMILY:	None
	DESCRIPTION / USE:	Vinyl repair
	FORMULA:	None established

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 2

Eye irritation : Category 2

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

GHS label elements

Hazard pictograms :   

Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read



and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>CAS OR CHEMICAL NAME</u>	<u>CAS #</u>	<u>% RANGE</u>
Ethyl acetate	141-78-6	30 - 50
MEK	78-93-3	12 - 22
METHYL ACETATE	79-20-9	10 - 18
Acetone	67-64-1	10 - 16

SECTION 4. FIRST AID MEASURES

Inhalation:	IF INHALED: Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops.
Skin Contact:	IF ON SKIN: Flush skin with water for 15 minutes. Take off all contaminated clothing. Seek medical attention if irritation develops.
Eye Contact:	IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention immediately.
Ingestion:	IF SWALLOWED: Call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person.

SECTION 5. FIREFIGHTING MEASURES

Flammability Summary (OSHA): Highly flammable.

Flammable Properties

Flash Point: 23 °F
Autoignition Temperature: 766 °F
Fire / Explosion Hazards:

Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a flash fire. Vapors are heavier than air and may travel to a source of ignition and flash back. Closed containers may explode (due to the build up of steam pressure) when exposed to extreme heat.

Extinguishing Media: Alcohol-resistant foam Water spray Water fog Carbon dioxide (CO2) Dry chemical Avoid spreading fire or liquid by water flooding.



Fire Fighting Instructions: In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus. Use water to cool containers.

Hazardous Combustion Products: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Upper Flammable / Explosive Limit, % in air: 7.5 %(V) 7.5 %(V)

Lower Flammable / Explosive Limit, % in air: 1.2 %(V) 1.2 %(V)

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Protection for Emergency Situations: Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to boots, impervious gloves, hard hat, splash-proof goggles, impervious clothing, i.e., chemically impermeable suit, self-contained breathing apparatus.

Spill Mitigation Procedures

Air Release: Hazardous concentrations in air may be found in local spill area and immediately downwind. Vapors may be suppressed by the use of water fog.

Water Release: Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so.

Land Release: Create a dike or trench to contain materials. Absorb spill with inert material (e.g., dry sand, clay, earth or commercial absorbent), then place in a chemical waste container. After removal, flush contaminated area thoroughly with water. Avoid runoff into storm sewers and ditches which lead to waterways.

Additional Spill Information : Remove all sources of ignition. Stop source of spill as soon as possible and notify appropriate personnel. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all non-essential personnel. Dispose of spill residues per guidelines under Section 13, Disposal Consideration.

SECTION 7. HANDLING AND STORAGE

Handling: Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water. Avoid breathing mist or vapor. Use only in a well-ventilated area. Ground and bond containers when transferring material.

Storage: Store in a cool dry ventilated location, away from sources of ignition or other incompatible conditions and chemicals. Keep container(s) closed. Avoid accumulating electrostatic charge.

Incompatible Materials for Storage: Refer to Section 10, "Incompatible Materials."
Do Not Store At temperatures Above: 40 °C



SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to keep airborne exposures below the TLV, PEL or other recommended exposure limit.

Protective Equipment for Routine Use of Product

Respiratory Protection : Wear a NIOSH approved respirator if levels above the exposure limits are possible.

Respirator Type : A NIOSH approved full-face or half-face respirator in combination with chemical goggles. A NIOSH approved respirator with organic vapor cartridge. Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the published limit.

Skin Protection : Wear impervious gloves to avoid skin contact. When exposure to high concentrations are prolonged or repeated use protective boots and apron in addition to gloves.

Eye Protection: Use chemical goggles.

Protective Clothing Type: Impervious

General Protective Measures: Emergency eyewash should be provided in the immediate work area.

Components with workplace control parameters

Components (CAS-No.)	Value	Control parameters	Basis (Update)
Ethyl acetate (141-78-6)	TWA	400 ppm	ACGIH (02 2014)
MEK (78-93-3)	TWA	200 ppm	ACGIH (02 2014)
	STEL	300 ppm	ACGIH (02 2014)
METHYL ACETATE (79-20-9)	TWA	200 ppm	ACGIH (02 2014)
	STEL	250 ppm	ACGIH (02 2014)

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid
 Form: viscous
 Color: light yellow
 Odor: Solvent
 Molecular Weight: no data available
 Relative density: 0.75 - 0.85



pH :	no data available
Boiling Point:	158 °F (70 °C)
	no data available
Density	no data available
Vapor Pressure:	no data available
Vapor Density:	no data available
Viscosity:	no data available
Fat Solubility:	no data available
Solubility in Water:	insoluble
Partition coefficient n-octanol/water:	no data available
Evaporation Rate:	no data available
Oxidizing:	no data available
Volatiles, % by vol.:	no data available
VOC Content	This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489). This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.
HAP Content	no data available

SECTION 10. STABILITY AND REACTIVITY

Stability and Reactivity Summary:	Stable under normal conditions. Product will not undergo hazardous polymerization.
Conditions to Avoid:	Sparks, open flame, other ignition sources, and elevated temperatures., Contact with incompatible substances
Chemical Incompatibility:	Strong oxidizing agents, Bases
Hazardous Decomposition Products:	Carbon monoxide, Carbon dioxide, Other hazardous decomposition products may be formed.
Decomposition Temperature:	no data available

SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

Ethyl acetate	LD50	> 5,000 mg/kg	Rat
MEK	LD50	2,894 mg/kg	Rat
METHYL ACETATE	LD50	> 5,000 mg/kg	Rat
Acetone	LD50	5,800 mg/kg	Rat

Component Animal Toxicology

Dermal LD50 value:

Ethyl acetate	LD50	> 17 g/kg	Rabbit
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MEK	LD50	6,480 mg/kg	Rabbit
METHYL ACETATE	LD50	> 2,000 mg/kg	Rat
Acetone	LD50	20,000 mg/kg	Rabbit

Component Animal Toxicology
Inhalation LC50 value:

Product Animal Toxicity

Oral LD50 value: LD50 Believed to be > 2,000 mg/kg

Dermal LD50 value: LD50 Believed to be > 2,000 mg/kg

Inhalation LC50 value: no data available

Skin Irritation: May cause mild skin irritation.

Eye Irritation: This material is expected to be moderately irritating.

Skin Sensitization: May cause allergic skin sensitization in some individuals.

Ethyl acetate

Acute Toxicity: This product is moderately irritating to the eyes and upon inhalation may cause irritation to the mucous membranes of the respiratory tract. Ingestion may cause gastrointestinal discomfort.

Subchronic / Chronic Toxicity: There are no known or reported effects from chronic exposure.

Reproductive and Developmental Toxicity: Not known or reported to cause reproductive or developmental toxicity.

Mutagenicity: Not known or reported to be mutagenic.

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.

SECTION 12. ECOLOGICAL INFORMATION

Overview: No data for product. Individual constituents are as follows:

Ecological Toxicity Values for: Ethyl acetate

Pimephales promelas (fathead minnow)	-	Acute toxicity 96 h LC50	230 mg/l
Daphnia magna (Water flea)	-	Immobilization 24 h EC50	3,090 mg/l
Daphnia magna (Water flea)	-	Immobilization 24 h EC50	2,500 mg/l
Desmodesmus subspicatus (green algae)	-	Cell multiplication inhibition test 8 d ErC10	15 mg/l
Desmodesmus subspicatus (green algae)	-	Growth inhibition 72 h NOEC	> 100 mg/l
Pseudomonas putida	-	Cell multiplication inhibition test 16 h EC10	650 mg/l



Ecological Toxicity Values for: MEK

- Daphnia magna (Water flea) - Immobilization 24 h EC50 7,060 mg/l
- Daphnia magna (Water flea) - Immobilization EC50 10,000 mg/l
- Pseudomonas putida - Growth inhibition 16 h EC0 1.15 mg/l

Ecological Toxicity Values for: METHYL ACETATE

- Danio rerio (zebra fish) - Acute toxicity 96 h LC50 250 - 350 mg/l
- Daphnia magna (Water flea) - Acute toxicity 48 h EC50 > 1,000 mg/l
- Desmodesmus subspicatus (green algae) - 72 h EC50 > 120 mg/l
- Pseudomonas putida - Growth inhibition 16 h EC10 2,000 mg/l

Ecological Toxicity Values for: Acetone

- Oncorhynchus mykiss (rainbow trout) - Acute toxicity 96 h LC50 5,500 mg/l
- Daphnia magna (Water flea) - Immobilization 24 h EC50 > 10,000 mg/l
- Daphnia magna (Water flea) - Immobilization 48 h EC50 39,000 mg/l
- Desmodesmus subspicatus (green algae) - Cell multiplication inhibition test 8 d ErC10 7,500 mg/l
- Chlorella vulgaris (Fresh water algae) - Growth inhibition EC50 30,200 mg/l
- Pseudomonas putida - Cell multiplication inhibition test 16 h EC10 1,700.0000000 mg/l

SECTION 13. DISPOSAL CONSIDERATIONS

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

Waste Disposal Summary : If this product becomes a waste, it meets the criteria of a hazardous waste as defined under 40 CFR 261 and would have the following EPA hazardous waste number: D001.

Disposal Methods : As a hazardous liquid waste it must be disposed of in accordance with local, state and federal regulations.

Potential US EPA Waste Codes : D001



SECTION 14. TRANSPORT INFORMATION

DOT

UN number : 1133
Description of the goods : Adhesives
Class : 3
Packing group : II
Labels : 3
Emergency Response : 128
Guidebook Number

TDG

UN number : 1133
Description of the goods : ADHESIVES
Class : 3
Packing group : II
Labels : 3

IMDG-CODE

UN number : 1133
Description of the goods : ADHESIVES
Class : 3
Packing group : II
Labels : 3
EmS Number 1 : F-E
EmS Number 2 : S-D

SECTION 15. REGULATORY INFORMATION

WHMIS Classification : D2B: Toxic Material Causing Other Toxic Effects
B2: Flammable liquid

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Ethyl acetate	141-78-6	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification



SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

Components	CAS-No.
Ethyl acetate	141-78-6
Butanone	78-93-3
Methyl acetate	79-20-9
Acetone	67-64-1

Pennsylvania Right To Know

Components	CAS-No.
Ethyl acetate	141-78-6
Butanone	78-93-3
Methyl acetate	79-20-9



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SAFETY DATA SHEET

Acetone

67-64-1

New Jersey Right To Know

Components	CAS-No.
Ethyl acetate	141-78-6
Butanone	78-93-3
Methyl acetate	79-20-9
Acetone	67-64-1

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16. OTHER INFORMATION

SECTIONS REVISED: 3, 9
Major References : Available upon request.

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. ARCH CHEMICALS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ARCH CHEMICALS MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT. .

