

Thixon 422

MSDS NO: Effective: 1049-1-5 2/24/97

Supersedes: 12/17/96

Page 1

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product ID: Thixon 422

Generic Description: Resin/solvent solution

Product Use: Adhesive

For customer service/technical information, contact:

Morton Adhesives & Chemical Specialties

10 South Electric Street West Alexandria OH 45381

800-348-8846

HAZARD RATINGS					
HMIS NFPA					
Health	2 *	2			
Fire	3	3			
Reactivity	0	0			
	* = C	hronic			

MSDS prepared by: Toxicology and Regulated Substance Compliance David Wienckowski, D.A.B.T. 100 N. Riverside Plaza Chicago IL 60606 312-807-3422

ChemTrec Emergency 1-800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME	CAS #	Approximate % (w/w)
Ethyl alcohol	64-17-5	35.3
Xylene	1330-20-7	27.9
Methyl ethyl ketone	78-93-3	13.3
Ethyl benzene	100-41-4	7.0
Non-hazardous and other ingredients below reportable levels	Proprietary	Balance

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: FLAMMABLE LIQUID AND VAPOR. CAUSES SEVERE EYE IRRITATION. CAUSES SEVERE DIGESTIVE TRACT IRRITATION. INHALATION MAY CAUSE DIZZINESS, HEADACHE AND INCOORDINATION. INGESTION CAN CAUSE DIZZINESS, FAINTNESS, HEADACHE AND INCOORDINATION. INGESTION MAY CAUSE INFLAMMATION OF THE LUNGS. MAY CAUSE RESPIRATORY TRACT IRRITATION. INGESTION MAY CAUSE NAUSEA, VOMITING, PAIN, UPSET STOMACH, DIARRHEA. INHALATION MAY CAUSE NAUSEA, VOMITING, UPSET STOMACH. MAY CAUSE SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. See sections 3, 5, & 6.

PRIMARY ROUTES OF EXPOSURE: Eye. Skin. Inhalation (breathing).

EYE CONTACT: Causes severe irritation. May cause corneal opacity (clouding of the eye surface). Can cause burning sensation, tearing, and redness.

SKIN CONTACT: May cause slight to mild irritation. Prolonged or repeated contact may dry the skin and lead to irritation (i.e. dermatitis). May be absorbed through the skin. Can cause redness, itching, and burning sensation.

INHALATION (Breathing): Irritating to the eyes, nose, and respiratory tract.



Thixon 422

MSDS NO:

1049-1-5 Effective:

2/24/97

Supersedes: 12/17/96

Page

Can cause dizziness, headaches, and incoordination. Nausea, vomiting, and stomach upset can occur. Can cause anesthetic and/or narcotic effects.

INGESTION (Swallowing): Severely irritating to the mouth, throat, and stomach. May be harmful if swallowed. May cause nausea, vomiting, pain, and stomach upset (e.g., diarrhea). Can cause dizziness, faintness, headache, and incoordination. Possible aspiration hazard. May cause inflammation of the lungs.

TARGET ORGANS/CHRONIC EFFECTS: Liver. Kidneys. Nervous system. Lungs and respiratory system. Eyes. Skin.

CONDITIONS AGGRAVATED BY EXPOSURE: Liver. Kidneys. Nervous system. Lungs and respiratory system. Skin.

CARCINOGENICITY:

20202 2 12 2 2	ACGIH	IARC	NTP	OSHA
Ethyl alcohol	No	No	No	No
Xylene	No	No	No	No
Methyl ethyl ketone	No	No	No	No
Ethyl benzene	No	No	No	No

4. FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Get prompt medical attention.

SKIN CONTACT: Immediately flush with water. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Professionally wash clothing and shoes before re-use.

INHALATION (Breathing): Remove to fresh air. If symptoms develop, seek immediate medical attention. If not breathing, give artificial respiration.

INGESTION (Swallowing): Seek medical attention. Immediately induce vomiting, as directed by medical personnel. Never give anything by mouth to an unconscious person.

NOTES TO PHYSICIANS: Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy.

5. FIRE FIGHTING METHODS

Flash Point...: 20F -6.6C Method....: Setaflash Closed Cup

Explosive Lmts: LEL(%) 1.2 UEL(%) Not Determined

Autoignition ... Not Determined

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Smoke, soot, and toxic/irritating fumes (i.e., carbon dioxide, carbon monoxide, etc.). Formaldehyde and/or other aldehydes.

FIRE AND EXPLOSION HAZARDS: High temperatures can cause sealed containers to rupture due to a build up of internal pressure. Cool with water. Vapors can travel to a source of ignition (flame, electric motor, hot surface, cigarette, etc.) and flash back. During a fire, irritating and highly toxic gases may be generated during combustion or decomposition.

EXTINGUISHING MEDIA: Water may be ineffective. SMALL FIRES: Dry chemical, carbon dioxide, halon, water spray, or foam. LARGE FIRES: Water spray, fog,



Thixon 422

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Supersedes: 12/17/96

or alcohol foam.

FIRE FIGHTING PROCEDURES/EQUIPMENT: Fire fighters and ot exposed to the products of combustion should be equipped positive pressure self-contained breathing apparatus (SCE protective clothing.

6. ACCIDENTAL RELEASE MEASURES

EVACUATION: Isolate hazard area. Keep unnecessary and ufrom entering. Eliminate all sources of ignition.

CONTAINMENT: Safely stop discharge. Contain material, a dike or barrier. Stop material from contaminating soil, sewers or bodies of water.

CLEAN-UP/PERSONAL PROTECTION EQUIPMENT: Appropriate safe protective equipment should be used. Use supplied air resself-contained breathing apparatus in enclosed spaces or limits can be exceeded. See Section 8.

COLLECTION AND DISPOSAL: Stop discharge, if safe to do a protective equipment. Use non-sparking tools and/or explequipment. Stop ignition sources. Cover spills with absolute and place in closed chemical waste containers. It to applicable local, state and federal regulations.

REPORTING: Spills of this material in excess of a componer reported to the National Response Center (1-800-424-8802) appropriate state and local emergency response organizations. Xylene

Methyl ethyl ketone Ethyl benzene RQ :

7. HANDLING AND STORAGE

Storage Temperature 140F 60C

STORAGE CONDITIONS: Store in cool, dry, well ventilated ignition sources, and direct sunlight. Keep containers WARNING: Hot organic chemical vapors or mists can suddent combust when mixed with air. Ignition can occur at typic temperature process conditions. Any use in such process thoroughly to assure safe operating conditions.

TRANSFER: Containers should be supported and grounded be dispensing, mixing, pouring, and emptying. Open with not container is warm, open bung slowly to release internal

PERSONAL HYGIENE: Wash thoroughly after handling, espectarinking, smoking, and using restroom facilities. Wash faceshield, and gloves. Professionally launder contaminate-use.

EMPTY CONTAINER PRECAUTIONS: Attention! This container is follow label warnings even after container is emptied simmay retain product residues. Do not use heat, sparks, or cigarettes on or near empty container. Do not reuse empty professional cleaning for food, clothing, or products for



consumption or where skin contact can occur.

Thixon 422

MSDS NO: Effective:

1049-1-5 2/24/97

Supersedes: 12/17/96

Page

125 ppm

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Ethyl benzene

ACGIH - TLV		
Ethyl alcohol	1000	maga
Xylene		ppm
Methyl ethyl ketone		ppm
Ethyl benzene		ppm
ACGIH - STEL		
Xylene	150	ppm
Methyl ethyl ketone		ppm
Ethyl benzene		ppm
OSHA - PEL		
Ethyl alcohol	1000	mag
Xylene		ppm
Methyl ethyl ketone		ppm
Ethyl benzene		ppm
OCUA CERT		
OSHA - STEL	150	nnm
Xylene		ppm
Methyl ethyl ketone	300	ppm

ENGINEERING CONTROLS/VENTILATION: Local exhaust ventilation is recommen when vapors, mists, or dusts can be released in excess of established ai exposure limits (TLVs or PELs).

EYE PROTECTION: Wear chemical splash goggles. An eye wash facility shou readily available.

SKIN PROTECTION: Wear protective clothing and appropriate impervious gl Because a variety of protective gloves exist, consult glove manufacturer determine the proper type for a specific operation.

RESPIRATORY PROTECTION: Avoid breathing vapor and/or mists. Wear NIOSH/MSHA-approved equipment. Determine the appropriate type by consul the respirator manufacturer. High airborne concentrations may necessita use of self-contained breathing apparatus (SCBA) or a supplied air respi Respiratory protection programs must be in compliance with 29 CFR 1910.1

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless	Odor:	Solvent
Physical State:	Liquid	Solubility:	Insoluble
рН	Not Applicable	Boiling Point .:	147F 63.8C
Vapor Pressure:	Not Determined	Vapor Density .:	Not Determined
Evaporation Rt:	Not Determined	VOC Material:	735 g/L 6.1 lbs/
Specific Grvty:	0.88	%Non-Vol(w/w).:	18

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY



Thixon 422 MSDS NO:

1049-1-5 2/24/97 12/17/96

23,

3,

17,

Effective: Supersedes:

CHEMICAL STABILITY: Stable under normal conditions of

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: High temperatures.

INCOMPATIBILITY WITH OTHER MATERIALS: Oxidizers. Acids

11. TOXICITY INFORMATION

Methyl ethyl ketone:

COMPONENTS:

Ethyl									
Fetal	abnor	malit	ies ha	ive	been	reported	in	studies	with
cause	liver	and	kidney	7 i	njury				

Fetal abnormalities ha	we been reported in	studies with
cause liver and kidner	injury.	
Oral LD50	Rat	7,
	Mouse	3,
	Guinea pig	5,
Inhalation ICEO	Dot	00'

OLAT HD30	Nac	1,
	Mouse	3,
	Guinea pig	5,
Inhalation LC50	Rat	20,
	Mouse	39,

IIIIdIdididi Deso	Nac	
	Mouse	
Xylene:		

Rat

Oral LD50	Rat	4
Inhalation LC50	Rat	5

Rat	2,
Mouse	4,
Rabbit	6,
Mouse	40,
	Mouse Rabbit

Ethyl benz						8-009-000
	inhalation					
activity"	of ethylber	nzene in	male r	ats k	pased on	increas

accivity of congression in male rate based on incl	
tubule neoplasms and testicular adenoma. There was '	
carcinogenic activity" in female rats based on renal	tu
"some evidence of carcinogenic activity" in male mid	ce b
incidences of alveolar/bronchiolar neoplasms and in	fem

increased incidences of hepatocellular neoplasms. Oral LD50 Rat Dermal LD50 Rabbit

12. ECOLOGICAL INFORMATION No data are available on this product.

13. DISPOSAL CONSIDERATIONS

DISPOSAL: When a decision is made to discard this mate meets RCRA's characteristic definition of ignitability.

GENERAL STATEMENTS: Federal regulations may apply to e and/or local regulations may be different.

GENERAL RECOMMENDATIONS: Of the methods of disposal cu is recommended that an alternative be selected according order of preference, based upon environmental acceptabi rework, if feasible; (2) incinerate at an authorized fa an acceptable waste treatment facility.



Thixon 422 MSDS NO:

1049-1-5

Effective: Supersedes: 12/17/96

2/24/97

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SPECIAL INSTRUCTIONS: Be sure to contact the appropriate governmen environmental agencies if further guidance is required.

14. TRANSPORT INFORMATION

Weight (lb) Shipping Name Adhesives

49 C Y

78-93-3

DOT Label: Flammable Liquid UN/NA Id Num..: UN 1133

DOT Label No..: L152-1

Hazard Class..: 3 (IATA/49CFR) 3.2 (IMO)

Packing Group .: II WHMIS Label...: F152-1

15. REGULATORY INFORMATION

FEDERAL:

This product is considered hazardous under the OSHA Hazard Communic Standard (29 CFR 1910.1200).

SARA Title III - Section 311/312 - Hazard Categories:

Y- Fire Hazard

N- Sudden Release of Pressure Hazard

N- Reactivity Hazard Y- Immediate (acute) Health Hazard Y- Delayed (chronic) Health Hazard

Ozone-Depleting Chemicals - No regulated ingredients.

SARA Section 302 Extremely Hazardous Mat - No regulated ingredients

SARA Section 313 Toxic Chemicals

Xvlene

Methyl ethyl ketone

Ethyl benzene

TSCA Section 8(d) Data Reporting Rule

Methyl ethyl ketone

Ethyl benzene

STATE RIGHT-TO-KNOW:

Pennsylvania - New Jersey R-T-K

Ethyl alcohol 64-17-5 Xylene 1330-20-7 Environmental Hazard.

Methyl ethyl ketone

Environmental Hazard.

100-41-4 Ethyl benzene Environmental Hazard.

Non-hazardous trade secret ingredient(s)

Proprietary

California - California Proposition 65

WARNING: This product contains a chemical(s) known to the State o to cause cancer. 50-00-0

Formaldehyde Cancer Hazard.

* Trace = present at less than 0.01 percent.



Thixon 422

MSDS NO: Effective:

1049-1-5 2/24/97

Supersedes: 12/17/96

Page 7

CONEG - No data available.

CANADA:

This is a "controlled product" under the Canadian Workplace Hazardous Materials Information System (WHMIS).

Class B Division 2

Class D Division 2 Sub-division B

CEPA - NPRT Xvlene Methyl ethyl ketone Ethyl benzene

Canadian Chemical Inventory

Domestic Substance List Listed.

16. OTHER INFORMATION

USERS RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions - in addition to those described herein are required. Any health hazard and safety information herein should be passed on to your customers or employees, as the case may be.

DISCLAIMER OF LIABILITY: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.