

===== SECTION I - IDENTIFICATION OF MATERIAL AND SUPPLIER =====

PRODUCT NAME: AHX-4 275 ACRYLIC URETHANE HARDENER
PRODUCT CODE: 218-C1

MANUFACTURER'S NAME: R. J. McGLENNON CO. INC.
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SAN FRANCISCO, CA 94103

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===== SECTION II - HAZARDOUS IDENTIFICATION =====

OSHA REGULATORY STATUS

THIS CHEMICAL IS CONSIDERED HAZARDOUS BY THE 2012 OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

ACUTE TOXICITY - ORAL	CATEGORY 4 H302
ACUTE TOXICITY - DERMAL	CATEGORY 4 H312
ACUTE TOXICITY - INHALATION (VAPORS)	CATEGORY 4 H332
SKIN CORROSION/IRRITATION	CATEGORY 2 H315
SERIOUS EYE DAMAGE/EYE IRRITATION	CATEGORY 2B H320
CARCINOGENICITY	CATEGORY 2 H351
REPRODUCTIVE TOXICITY	CATEGORY 2 H361
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)	CATEGORY 2 H373
CHRONIC AQUATIC TOXICITY	CATEGORY 3 H412
FLAMMABLE LIQUIDS	CATEGORY 2 H225
FLAMMABLE LIQUIDS	CATEGORY 3 H226
SLOT, SINGLE EXPOSURE	CATEGORY 3 H335
EYE IRRITATION	CATEGORY 2 H319

LABEL ELEMENTS

- HEALTH HAZARD
- FLAME
- EXCLAMATION MARK

EMERGENCY OVERVIEW STATEMENTS

HAZARD STATEMENTS

- HARMFUL IF SWALLOWED
- HARMFUL IF INHALED
- CAUSES SKIN IRRITATION
- CAUSES EYE IRRITATION
- SUSPECTED OF CAUSING CANCER
- SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD
- MAY CAUSE DAMAGE TO THE CENTRAL NERVOUS SYSTEM THROUGH PROLONGED OR REPEATED EXPOSURE
- HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS
- FLAMMABLE LIQUID AND VAPOR

PRECAUTIONARY STATEMENTS - PREVENTION

- OBTAIN SPECIAL INSTRUCTIONS BEFORE USE
- DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD
- USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED
- USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA

S A F E T Y D A T A S H E E T

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WASH FACE, HANDS AND ANY EXPOSED SKIN THOROUGHLY AFTER HANDLING
DO NOT BREATHE MIST, VAPORS, SPRAY
KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING
KEEP CONTAINER TIGHTLY CLOSED
GROUND/BOND CONTAINER AND RECEIVING EQUIPMENT
USE EXPLOSION-PROOF ELECTRICAL/VENTILATING/LIGHTING EQUIPMENT
USE ONLY NON-SPARKING TOOLS
TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE
AVOID RELEASE TO THE ENVIRONMENT

PRECAUTIONARY STATEMENTS - RESPONSE
IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION
IF IN EYES: RINSE CAUTIONASLY WITH WATER FOR SEVERAL MINUTES. REMOVED CONTACT LENSES, IF PRESENTS AND EASY TO DO.
CONTINUE RINSING IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION
CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL
IF SIN IRRITATION OCCURS: GET MEDICAL ADVICE/ATTENTION
IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER
WASH CONTAMINATED CLOTHING BEFORE REUSE
IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING
IN CASE OF FIRE: USE CO2, DRY CHEMICAL, OR FOAM TO EXTINGUISH

PRECAUTIONARY STATEMENTS - STORAGE
STORE IN A WELL-VENTILATED PLACE. KEEP COOL

PRECAUTIONARY STATEMENTS - DISPOSAL
DISPOSE OF CONTENTS/CONTAINER TO INDUSTRIAL INCINERATION PLANT
DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

HAZARDS NOT OTHERWISE CLASSIFIED OTHER INFORMATION
REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS AND CRACKING

HAZARDS NOT OTHERWISE CLASSIFIED (HNO) OTHER INFORMATION
REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS AND CRACKING

===== **SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS**=====

REPORTABLE COMPONENTS	CAS NUMBER	WEIGHT PERCENT
Aliphatic Isocyanate (Homopolymer of HDI)	28182-81-2	44.18
PARACHLOROBENZOTRIFLUORIDE	98-56-6	40.5
* XYLENE	1330-20-7	7.40
1-METHOXY-2-PROPYL ACETATE	108-65-6	7.5
* Isocyanate Monomer (HDI Monomer)	822-06-0	.30

* Indicates this product contains EPCRA section 313 chemical(s) subject to the reporting requirements of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).
This information must be included in all MSDS's that are copied and distributed for this material. WARNING: This product contains a chemical known to the state of California to cause cancer, birth defects, or other reproductive harm.
Special Note for urethane hardener formulas: The HDI monomer (CAS 822-06-0) is present as a byproduct at a low level in the basic formula. When properly admixed (with the base component) for spray application the average level of the monomer component falls below normal reportable limits. However; upon aging it may rise to a reportable level (admixed).

Always follow the protection guidelines presented in this document.

WARNING: This product contains flammable solvent(s).

===== **SECTION IV - FIRST-AID MEASURES**=====

EYES: FLUSH GENTLY WITH WATER FOR 15 MINUTES, IF ANY IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.
SKIN: WASH AFFECTED AREA WITH SOAP AND WATER, IF ANY IRRITATION DEVELOPS AND PERSISTS, SEEK MEDICAL ATTENTION.
INHALATION: REMOVE TO FRESH AIR, IF DIZZINESS OR NAUSEA PERSISTS, SEEK MEDICAL ATTENTION.

===== **SECTION V - FIRE-FIGHTING MEASURES**=====

FLASH POINT: 25 Deg.F. METHOD USED: SETAFLASH
FLAMMABLE LIMITS IN AIR BY % OF VOLUME- LOWER: 1.0% UPPER: 12.7%

EXTINGUISHING MEDIA: FOAM, CO2, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES

WEAR A SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WITH APPROPRIATE TURN-OUT GEAR AND CHEMICAL RESISTANT PERSONAL PROTECTIVE EQUIPMENT.

UNUSUAL FIRE AND EXPLOSION HAZARDS

NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN EXPLODE. DURING TRANSFER OPERATIONS, ALL FIVE GALLON PAILS AND LARGER METAL CONTAINERS (TANK CARS AND TANK TRUCKS) SHOULD BE GROUNDED TO DISSIPATE STATIC CHARGES. VAPORS ARE HEAVIER THAN AIR, AND CAN TRAVEL ALONG THE GROUND TO IGNITION SOURCES.

===== **SECTION VI - ACCIDENTAL RELEASE MEASURE**=====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

SOAK UP WITH INERT ABSORBENT. DO NOT ALLOW MATERIAL TO ENTER DRAINS, SEWER SYSTEM. VENTILATE AREA.

===== **SECTION VII - HANDLING AND STORAGE**=====

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

USE ONLY WITH VENTILATION THAT KEEPS SECTION II COMPONENTS BELOW PERMISSABLE EXPOSURE LIMITS. KEEP CONTAINERS UPRIGHT AND SEALED. AVOID STORAGE ABOVE 120 Deg.F. KEEP FROM FREEZING.

OTHER PRECAUTIONS

AVOID SKIN AND EYE CONTACT. DO NOT BREATHE VAPORS. DO NOT TAKE INTERNALLY. USE ONLY WITH ADEQUATE VENTILATION. DUST FROM SANDING THE DRIED MATERIAL SHOULD BE TREATED AS NUISANCE DUST - THE USE OF A PARTICULATE DUST MASK IS RECOMMENDED. ALL PERSONS WHO USE THIS MATERIAL SHOULD READ AND UNDERSTAND ALL MANUFACTURERS' INSTRUCTIONS AND PRECAUTIONS PRIOR TO USE. THIS MATERIAL IS INTENDED FOR USE IN AN INDUSTRIAL ENVIRONMENT BY TRAINED PERSONNEL ONLY.

===== **SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION**=====

**EXPOSURE LIMITS ON
REPORTABLE COMPONENTS**

CAS NUMBER

Aliphatic Isocyanate (Homopolymer of HDI) 28182-81-2
 OSHA Not Established

 Manufacturer recommends: 0.5 mg/m3 TWA 8 hours & 1.0 mg/m3 STEL

PARACHLOROBENZOTRIFLUORIDE 98-56-6

 PEL: Not Established

 TLV: Not Established

* XYLENE 1330-20-7

 OSHA PEL EXPOSURE LIIMT: 100 ppm TWA

 ACGITH TLV EXPOSURE LIMIT: 100 ppm TWA

OSHA STEL: 150 ppm	
1-METHOXY-2-PROPYL ACETATE	108-65-6
OSHA PEL EXPOSURE LIMIT: NE	
ACGIH TLV EXPOSURE LIMIT: NE	
OTHER EXPOSURE LIMIT: Rabbit Skin LD50 > 5000mg/kg	
* Isocyanate Monomer (HDI Monomer)	822-06-0
OSHA Not Established	
ACGIH: .005 ppm TWA & .034 mg/m3	

RESPIRATORY PROTECTION

Respirator Guidelines for spray application of two component acrylic urethane finishes:
Good industrial hygiene practice dictates that when isocyanate containing coatings are spray applied, some form of respiratory protection should be worn. During the spray application of coatings containing this product, the use of a supplied-air (either positive pressure or continuous flow type) respirator is mandatory when one or more of the following conditions exists:

- The airborne isocyanate concentrations are not known; or
- The airborne isocyanate monomer concentrations exceed 0.05 ppm averaged over eight (8) hours (10 times the 8 hour TWA exposure limit); or
- The airborne polyisocyanate (polymeric, oligomeric) concentrations exceed 5 mg/m3 averaged over 8 hours or 10 mg/m3 averaged over 15 minutes (10 times the 8 hour TWA or the 15 minute STEL exposure limits); or
- Operations are performed in a confined space (see OSHA Confined Space Standard, 29 CFR 1910.146).

A properly fitted air-purifying (combination organic vapor and particulate) respirator, proven by test to be effective in isocyanate-containing spray paint environments, and used in accordance with all recommendations made by the manufacturer, can be used when all of the following conditions are met:

- The airborne isocyanate monomer concentrations are known to be below 0.05 ppm averaged over eight (8) hours (10 times the 8 hour TWA exposure limit); and
- The airborne polyisocyanate (polymeric, oligomeric) concentrations are known to be below 5 mg/m3 averaged over 8 hours or 10 mg/m3 averaged over 15 minutes (10 times the 8 hour TWA or the 15 minute STEL exposure limits); and
- A NIOSH-certified (National Institute of Occupational Safety and Health) End of Service Life Indicator or a change schedule based upon objective information or data is used to ensure that cartridges are replaced before the end of their service life. In addition, prefilters should be changed whenever breathing resistance increases due to particulate buildup

VENTILATION

SUFFICIENT TO KEEP SECTION II COMPONENTS BELOW THEIR EXPOSURE LIMITS

PROTECTIVE GLOVES

IMPERVIOUS GLOVES ARE RECOMMENDED (CONSULT INDUSTRIAL HYGIENIST).

EYE PROTECTION

SAFETY GLASSES WITH SIDE SHIELDS ARE RECOMMENDED TO PREVENT CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

EYE WASH STATION. TO PREVENT REPEATED OR PROLONGED CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.

WORK/HYGIENIC PRACTICES

WASH HANDS BEFORE EATING.

===== SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES =====

BOILING RANGE: 175 - 300 Deg F.	SPECIFIC GRAVITY (H2O=1): 1.17
VAPOR DENSITY: HEAVIER THAN AIR	EVAPORATION RATE: SLOWER THAN ETHER
SOLUBILITY IN WATER: NEGLIGIBLE	
APPEARANCE AND ODOR: OPAQUE LIQUID WITH ORGANIC SOLVENTS ODOR.	

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE	
		MM HG @	TEMP
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Aliphatic Isocyanate (Homopolymer of HDI)	28182-81-2	N/A	N/A
PARACHLOROBENZOTRIFLUORIDE	98-56-6	5.3	20 Deg C

* XYLENE	1330-20-7	5.1	68 Deg F
1-METHOXY-2-PROPYL ACETATE	108-65-6	3.7	20 Deg C
* Isocyanate Monomer (HDI Monomer)	822-06-0	N/A	N/A

===== SECTION X - STABILITY AND REACTIVITY =====

STABILITY

STABLE UNDER NORMAL CONDITIONS

CONDITIONS TO AVOID

ALL SOURCES OF IGNITION: HEAT, SPARKS, STATIC ELECTRICITY, OPEN FLAMES

INCOMPATIBILITY (MATERIALS TO AVOID)

STRONG ACIDS AND STRONG BASES, AMINES, ALCOHOLS AND WATER

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

CARBON DIOXIDE, CARBON MONOXIDE, HYDROCARBON COMPOUNDS

HAZARDOUS POLYMERIZATION

WILL NOT OCCUR

===== SECTION XI - TOXICOLOGICAL INFORMATION =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

NASAL AND RESPIRATORY IRRITATION, POSSIBLE DIZZINESS OR NAUSEA.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

EYES: PRIMARY IRRITATION, TEARING AND REDNESS. SKIN: POSSIBLE IRRITATION.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

MODERATE IRRITATION, REDNESS.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

SINGLE DOSE ORAL TOXICITY OF PRODUCT IS LOW.

HEALTH HAZARDS (ACUTE AND CHRONIC)

NONE KNOWN ON PRODUCT AS SUPPLIED

HOWEVER, OVER EXPOSURE TO SECTION II COMPONENTS CAN CAUSE DIZZINESS, NAUSEA OR HEADACHE. EXCESSIVE SKIN CONTACT CAN CAUSE DERMATITIS. EYE CONTACT CAN CAUSE IRRITATION.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

THIS MATERIAL IS NOT EXPECTED TO BE CARCINOGENIC IN HUMANS BASED ON NEGATIVE EVIDENCE OF CARCINOGENICITY IN LABORATORY ANIMALS. THIS MATERIAL IS NOT LISTED AS A CARCINOGEN BY IARC, NTP OR OSHA. SEE OTHER WARNINGS IN SECTION II. SUSPECTED OF CAUSING CANCER. SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD. See California warnings in Section II.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

OVER EXPOSURE TO SECTION II COMPONENTS CAN AGGRAVATE PRE-EXISTING DISORDERS OF KIDNEYS, LIVER AND RESPIRATORY SYSTEM.

===== SECTION XII - ECOLOGICAL INFORMATION =====

ECOLOGICAL INFORMATION: NO RELEVANT DATA FOUND

MOBILITY IN SOIL: NO RELEVANT DATA FOUND

OTHER ADVERSE EFFECTS: NO RELEVANT DATA FOUND

===== SECTION XIII - DISPOSAL CONSIDERATION =====

WASTE DISPOSAL METHOD

HAZARDOUS WASTE REGULATIONS ARE NOT CONSISTENT THROUGHOUT THE COUNTRY (SOME WASTES ARE NOT HAZARDOUS WASTE UNDER FEDERAL RULES, BUT THE SAME WASTE MAY BE DEFINED AS HAZARDOUS WASTE UNDER STATE RULES).

ANY SPILLS SHOULD BE SOAKED UP WITH INERT ABSORBANT AND COLLECTED IN CONTAINERS. PAINT BOOTH FILTERS MAY BE CONSIDERED HAZARDOUS.

CONTACT YOUR LOCAL HAZARDOUS WASTE AGENCY (WITH INFORMATION FROM THIS MSDS) FOR PROPER DISPOSAL INSTRUCTIONS.

===== SECTION XIV - TRANSPORT INFORMATION =====

DOT / TDG / MEX

UN-NO	UN1263
PROPER SHIPPING NAME	PAINT
HAZARD CLASS	3
PACKING GROUP	II
NAERG:	127

IATA / IMDG / IMO

UN-NO	UN1263
PROPER SHIPPING NAME	PAINT
HAZARD CLASS	3
PACKING GROUP	PGII
PACKING INSTRUCTIONS	355;366
NAERG:	127
EMS-NO	F-E, S-E

===== SECTION XV - REGULATORY INFORMATION =====

SARA 313 REPORTABLE COMPONENTS CAN BE FOUND IN SECTION III COMPOSITION

SARA 313 HAZARDOUS CATEGORIZATION

ACUTE HEALTH HAZRD	YES
CHRONIC HEALTH HAZARD	YES
FIRE HAZARD	YES
SUDDEN RELEASE OF PRESSURE HAZRD	NO
REACTIVE HAZRD	NO

STATE REGULATIONS: CALIFORNIA PROPOSITION 65

WARNING: THIS MATERIAL CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 REQUIRES THAT CLEAR AND REASONABLE WARNING BE GIVEN PRIOR TO EXPOSING ANY PERSON TO THIS CHEMICAL

===== SECTION XVI - OTHER INFORMATION =====

THE INFORMATION IN THIS MSDS AND ENVIRONMENTAL DATA SHEET WAS OBTAINED FROM SOURCES WHICH WE BELIEVE ARE RELIABLE. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, REGARDING ITS ACCURACY OR COMPLETENESS. RECIPIENTS ARE ADVISED TO CONFIRM THE CURRENT ACCURACY IN ADVANCE OF NEEDS.