

# Section 1. Identification

GHS product Identifier	: <b>VM Precoat Adhesive</b>
Other means of identification	: Not available
Relevant identified used of the subs	tance or mixtures and uses advised against

Aromatic & aliphatic hydrocarbon adhesive

Supplier's details	American Hydrotech, Inc.
	303 East Ohio Street
	Chicago, Illinois 60611
	Tel: (800) 877-6125 (M-F 8 am to 5 pm CST)
<b>Emergency telephone number</b> )	PERS #11540: 800-633-8253 (24/7)
with hours of operation)	

# Section 2. Hazards identification

<b>OSHA/HCS</b> status	: This material is considered hazardous by the OSHA Hazardous Communications Standard
OSHA/HCS status	(49CFR1910.1200).
Classification of the substance or	: Flammable liquid- Category 2
mixture	Skin Corrosion/Irritation- Category 2
	Toxic to reproductive (Fertility)- Category 2
	Toxic to reproduction (unborn child)- Category 2
	Specific target organ toxicity (single exposure) (Narcotic effects) – Category 3
	Specific target organ toxicity (repeated exposure)- Category 2
	Aspiration hazard- Category 1
CHICLE I I I I I I I I I I I I I I I I I I I	Aquatic toxicity ( Chronic) – Category 2
GHS label elements	
Hazard pictogram	$\land \land \land \land$
Signal word	: Danger
Hazard statement	: Highly flammable liquid and vapor
	Causes skin irritation
	Suspected of damaging fertility or the unborn child.
	May be fatal is swallowed and enters airways.
	May cause drowsiness and dizziness.
	May cause damage to organs through prolonged or repeated exposure.
<b>—</b>	Toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precaustions have
	been read and understood. Use personal protective equipment as required. Wear eye
	and face protection.Keep away from heat, sparks, open flames and hot surfaces. – No
	smoking. Use explosion- proof electrical, ventilating, lighting and all material-
	handling equipment. Use only non-sparkingtools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-
	ventilated area. Avoid release to the environment. Do not breathe vapor. Wash hands
	thoroughly after handling.
	thoroughly area handling.

## Section 2. Hazards identification

Response	Collect spillage; Get medical attention if you feel unwell. If exposure or concerned: Get medical attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. If SWALLOWED: Immediately call a POISON CENTER or physician. DO NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known

# Section 3. Composition/information on ingredients

Substance/Mixture	: Mixture
Other means of identification	: Not available
CAS number/other identifiers	
CAS number	: Not applicable
Product code	: Not applicable

Ingredient name	%	CAS Number
Toluene	30-60	108-88-3
n-Hexane	30-60	110-54-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentration applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### Description of necessary first aid measures.

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# Section 4. First aid measures

Most important symptoms/effects,	acute and delayed
Potential acute health effects	
Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.
Skin contact	: Causes skin irritation.
Ingestion	: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.
Over-exposure signs/symptoms	
Eye contact	: Adverse symptoms may include the following:
	Pain or irritation,
	Watering,
	Redness.
Inhalation	: Adverse symptoms may include the following:
	Nausea or vomiting
	Headache
	Drowsiness/fatigue
	Dizziness/vertigo
	Unconsciousness
	Reduced fetal weight
	Increase in fetal deaths
	Skeletal malformations
Skin contact	: Adverse symptoms may include the following:
	Irritation
	Redness
	Reduced fetal weight
	Increase in fetal deaths
	Skeletal malformations
Ingestion	: Adverse symptoms may include the following:
0	Nausea or vomiting
	Reduced fetal weight
	Increase in fetal deaths
	Skeletal malformations
Indication of immediate medical a	ttention and special treatment needed, if necessary.
Notes to physician:	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities
Notes to physician.	have been ingested or inhaled.
Specific treatments	: No specific treatment
Protection of first-aiders:	: No action shall be taken involving any personal risk or without suitable training. If it is
r rotection of mist-alders;	suspected that fumes are still present, the rescuer should wear an appropriate mask or self- contained breathing apparatus. It may be dangerous to the person providing the aid to give
	mouth to mouth resuscitation.

# Section 5. Fire-fighting measures

Extinguishing media		
Suitable extinguishing media	: Use dry chemical, $CO_2$ , water spray (fog) or foam.	
Unsuitable extinguishing media	: Do not use water- jet or water based fire extinguishe	rs.
Specific hazards arising from the chemical	: Highly flammable liquid and vapor. The vapor/gas is the ground. Vapors may accumulate in low or confin distance to a source of ignition and flash back.	
Hazardous thermal decomposition	: Decomposition products may include the following i	naterials:
products	Carbon Dioxide	
	Carbon Monoxide	
Special protective equipment	: Move containers from fire area if this can be done w fire-exposed containers cool.	ithout risk. Use water spray to keep
Special protective actions for fire fighters	: Fire-fighters should wear appropriate protective equa apparatus (SCBA) with a full face piece operated in	1 0
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# Section 6. Accidental release measures

Personal precautions, protective	equipment and emergency procedures.
For non emergency personal	: Evacuate surrounding area. Keep unecessary and unprotected personnel from entering. Shut off all iginition sources. No flares, smoking, or flames in hazard areas. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unstuiatble materials. See also the information in "For non- emergency personnel.
Enviromental precautions	: Avoid disposal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).
Methods and materials for conta	ainment and cleaning up
Spill	: Stop leak if without risk. Move container from spill area. Use spark proof tools and explosion proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for

# Section 7. Handling and storage

waste disposal.

Precautions for safe handling	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure-obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until safety precautions have been read and understood. Do not get in eyes or on the skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage area or confined spaces unless adequately ventilated. Keep in original container or an approved alternative made from compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flames and any other ignition source. Use explosion-proof electrical (ventilation, lighting and material handling) equipment. Use only non- sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in segregated and approved area. Store in original container protected from direct sunlight in a dry cool and well-ventilated area away from incompatible materials (see section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready to use. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

### <u>Control parameters</u> <u>Occupational exposure limits</u>

Ingredient name	Exposure limits
Toluene	NIOSH REL (United States, 6/2009)
	STEL: 560 mg/m <sup>3</sup> for 15 minutes
	STEL: 150 ppm for 15 minutes
	TWA: 375 mg/m <sup>3</sup> for 10 hours
	TWA: 100 ppm for 10 hrs
	OSHA PEL Z2 (United States, 11/2006)
	AMP: 500 ppm 10 minutes
	CEIL:300 ppm
	TWA: 200 ppm 8 hrs
	ACGIH TLV (United States, 3/2012)
	TWA: 20 ppm 8 hrs
n-Hexane	NIOSH REL (United States, 6/2009)
	TWA: 180 mg/m <sup>3</sup> for 10 hours
	TWA: 50 ppm for 10 hrs
	OSHA PEL (United States, 6/2010)
	TWA: 1800 mg/m <sup>3</sup> 8 hrs
	TWA: 500 ppm 8 hrs
	ACGIH TLV (United States, 3/2012) Absorbed through the skin.
	TWA: 50 ppm 8 hrs
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or
	other engineering controls to keep worker exposure to airbornes contaminants below any
	recommended or statutory limits. The engineering controls also need to keep gas, vapor or
	dust concentrations below any lower explosive limits. Use explosion-proof ventilation
	equipment.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they
Linvir onlinentur exposure controls	comply with the requirements of environmental protection legislation.
Hygiene measure:	: Wash hands, forearms and face thoroughly after handling chemical products, before eating,
Hygiche measure.	smoking, and using the lavatory and at the end of the working period. Ensure that eyewash
	stations and safety showers are close to the work station location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when risk assessment
	indicates this is necessary to avoid exposure to liquid splashes, mists, gases and dusts. If
	contact is possible, the following protection should be worn, unless the assessment indicates
	a higher degree of protection: Chemical splash goggles.
Skin Protection	
Hand protection	: Chemical- resistant, imprevious gloves complying with an approved standard should be
	worn at all times when handling chemical products if a risk assessment indicates this is
	necessary.
Body protection	: Personal protective equipment for the body should be selected based on the task being
•	preformed and the risks involved and should be approved by a specialist before handling this
	product. When there is a risk of ignition from static electricity, wear anti static protective
	clothing. For the greatest protection form static discharges, clothing should include anti-
	static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based
Other skin protection	
	on the task being preformed and the risks involved and should be approved by a specialist
	before handling this product.
<b>Respiratory protection</b>	: Use a properly fitted, air purifying or supplied air respirator complying with an approved
	standard if a risk assessment indicates this is necessary. Respirator selection must be based
	on known or anticipated exposure levels, the hazards of the product and the safe working
	limits of the selected respirator.
	•

# Section 9. Physical and chemical properties

<b>Appearance</b>	
Physical state	: Liquid
Color	: Red
Odor	: Hydrocarbon (strong)
Odor threshold	: Not available
рН	: Not applicable
Melting point	: Not applicable
Boiling point	: 67°C ( 152.6° F)
Flash Point	: Closed cup: -19.4°C ( -2.9° F)
Burning time	: Not determined
Burning rate	: Not determined
Evaporation rate:	: 4.5 ( ether(anhydrous)=1)
Flammability(solid, gas)	: Not applicable
Lower & upper explosive	: Lower: 1.2%
(flammable) limits	: Upper: 7.5%
Vapor density	: 20.3 kPa (152 mm Hg) @ room temperature
Vapor pressure	: 3.5 (Air=1)
Relative density	: 0.9
Solubility	: Partially soluble in the following materials: cold and hot water.
Partition coefficient: n-	: Not available
octanol/water	
Auto- ignition temperature	: Not available
Decomposition temperature	: Not available
SADT	: Not available
Viscosity	: 51-56 KU
VOC	: 527 g/l

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: This product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Conditions to avoid:	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatible materials	: Reactive or incompatible with the following materials: Oxidizing materials, acids, and alkalis.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

### Information on toxicological effects Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Toluene	LC50 Inhalation Vapor	Rat	$49 \text{ g/m}^3$	4 hours
	LD50 Oral	Rat	636m g/kg	-
n-Hexane	LC50 Inhalation Gas	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	1584 mg/kg	-

# Section 11. Toxicological information

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Toluene	Eyes- Mild irritant	Rabbit	-	0.5 minutes 100 mg	-
	Skin- Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes- Mild irritant	Rabbit	-	870 μg	-
	Eyes- Severe irritant	Rabbit	-	24 hours2 mg	-
	Skin- Mild irritant	Pig	-	24 hours 250 µL	-
	Skin- Mild irritant	Rabbit	-	435 mg	-
	Skin- Moderate irritant	Rabbit	-	500 mg	-
n-Hexane	Eyes- Mild irritant	Rabbit	-	10 mg	-

Sensitization

Sensitization	
Skin	: There is no data available
Respiratory	: There is no data available
<b>Mutagenicity</b>	: There is no data available
Carcinogenicity	: There is no data available
Classification	

Product/ingredient name	OSHA	IARC	NTP
Toluene	-	3	-

## Reproductive toxicity

: There is no data available

Teratogenicity : There is no data available

### Specific target organ toxicity ( single exposure)

Name	Category	Route of Exposure	Target organs
Toluene	Category 3	Not applicable	Narcotic effects
n-Hexane	Category 3	Not applicable	Narcotic effects

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of Exposure	Target organs
Toluene	Category 2	Not determined	Not determined
n-Hexane	Category 2	Not determined	Not determined

### **Aspiration hazard**

Name	Results
Toluene	Aspiration Hazard- category 1
n-Hexane	Aspiration Hazard- category 1

**Information on the likely routes of** : Routes of entry anticipated: Oral, dermal, inhalation. **exposure** 

Potential acute health effects	
Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.
Skin contact	: Causes skin irritation.
Ingestion	: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.

# Section 11. Toxicological information

Symptoms related to the physical	, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following:
	Pain or irritation,
	Watering,
	Redness.
Inhalation	: Adverse symptoms may include the following:
	Nausea or vomiting
	Headache
	Drowsiness/fatigue
	Dizziness/vertigo
	Unconsciousness
	Reduced fetal weight
	Increase in fetal deaths
	Skeletal malformations
Skin contact	: Adverse symptoms may include the following:
	Irritation
	Redness
	Reduced fetal weight
	Increase in fetal deaths
	Skeletal malformations
Ingestion	: Adverse symptoms may include the following:
	Nausea or vomiting
	Reduced fetal weight
	Increase in fetal deaths
	Skeletal malformations
Delayed and immediate effects an	d also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: No known significant effects or critical hazards
Potential delayed effects	: No known significant effects or critical hazards
Long term exposure	

	$\partial$
Potential delayed effects	: No known significant effects or critical hazards
Long term exposure	
Potential immediate effects	: No known significant effects or critical hazards
Potential delayed effects	: No known significant effects or critical hazards
Potential chronic health effects	
General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: No known significant effects or critical hazards
Mutagenicity	: No known significant effects or critical hazards
Teratogenicity	: Suspected of damage to unborn child.
<b>Developmental effects</b>	: No known significant effects or critical hazards
Fertility effects	: Suspected of damage to fertility.
Target organs	: Contains material which may cause damage to the following organs: kidneys, the nervous system, the reproductive system, liver, peripheral nervous system, upper respiratory tract, skin, central nervous system (CNS), eye, lens, or cornea.

Numerical measures of toxicity Acute toxicity estimates

: There is no data available

### Section 12. Ecological information

Toxicity			
Product/ingredient name	Result	Species	Exposure
Toluene	Acute EC50 433 ppm Marine water	Algae-Skeletonnema costatum	96 hours
	Acute EC50 12500 µg/l Fresh water	Algae-Pseudokirchneriella Subcapitata	72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans-Gammarus	48 hours
		pseudolimnaeus- Adult	
	Acute EC50 6000 µg/l Fresh water	Daphnia-Daphnia magna-Juvenile	48 hours
		(Fledging, Hatching, Weanling)	
	Acute LC50 5500 µg/l Fresh water	Fish-Oncorhynchus kisutch-Fry	96 hours
	Chronic NOEC 500000µg/l Fresh	Algae-Pseudokirchneriella subcapitata	96 hours
	water		
	Chronic NOEC 1000µg/l Fresh	Daphnia-Daphnia magna	21 days
	water		
n-Hexane	Acute LC50 113000 µg/l Fresh	Fish-Oreochromis mossambicus	96 hours
	water		

#### Persistence and degradability Bio accumulative potential

: There is no data available

Product/ingredient name	LogP <sub>OW</sub>	BCF	Potential
Toluene	2.69	8.317637711	low
n-Hexane	3.9	-	low

Mobility in soil	
Soil/water partition coefficient (K <sub>OC</sub> )	: Not applicable
Other adverse effects	: No known significant effects or critical hazards

### Section 13. Disposal Considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recycled products via a licensed waste disposal contractor. Waste should not be disposed of to a sewer. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, water ways, drains and sewers.

### United States- RCRA Toxic hazardous waste "U" List

Ingredient	CAS#	Status	Reference number
Toluene	108-88-3	Listed	U220

# Section 14. Transportation information

	<b>DOT Classification</b>	IMDG	IATA
UN Number	UN 1139	UN 1139	UN 1139
UN Proper Shipping Name	Coating Solution RQ ( toluene, n-hexanes)	Coating Solution , Marine Pollutant	Coating Solution
Transportation hazard class(es)			3 FLAMMABLE LIQUID
Packing Group	II	II	II
<b>Environmental Hazard</b>	Yes	Yes	Yes
Additional Information	Reportable Quantities 2999.4 lbs/1361.7 kg (399.7 gal/1513 L). Packages sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.	Emergency schedules (EmS) F-E, S-E	

**Special precautions for user** 

- **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
  Not available
- Transportation in bulk according to Annex II of MARPOL 73/78 and the IBC Code

# Section 15. Regulatory information

U.S. Federal regulations:	TSCA 8(a) CDR Exempt/Partial exemption: Not determined United States inventory (TSCA 8 b): all components are listed or exempted
Clean Water Act(CWA) 307	: Toluene
Clean Water Act(CWA) 311	: Toluene
Clean Air Act Section 112 (b)	: Listed
Hazardous air pollutants	
(HAPs)	
Clean Air Act (CAA) Section	: Not listed
602 Class I Substances	
Clean Air Act (CAA) Section	: Not listed
602 Class II Substances	
DEA List I Chemicals	: Not listed
(Precursor chemicals)	T 1 / 1
DEA List II Chemicals	: Listed
(Essential Chemicals)	
SARA 302/304	No moduate found
Composition/information on ingradiants	: No products found
<u>ingredients</u> SARA 304 RO	: Not applicable
SANA JUT NY	. Not applicable

# Section 15. Regulatory information

#### SARA 311/312 Classification

: Fire Hazard, Immediate (acute) health hazard, Delayed (chronic) health.

### **Composition/information on ingredients**

Name	%	Fire Hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed(chronic) health hazard
Toluene	30-60	Yes	No	No	Yes	Yes
n-Hexane	30-60	Yes	No	No	Yes	Yes

<u>SARA 313</u>				
	Product name	CAS Number	%	
Form R-reporting	Toluene	108-88-3	30-60	
requirements	n-Hexane	110-54-3	30-60	
Supplier notification	Toluene	108-88-3	30-60	
	n-Hexane	110-54-3	30-60	

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS.

State regulations	
Massachusetts	: The following components are listed: Toluene ; n-Hexane
New Jersey	: The following components are listed: Toluene ; n-Hexane
New York	: None of the components are listed: Toluene ; n-Hexane
Pennsylvania	: The following components are listed: Toluene ; n-Hexane
California Prop.65	: Warning: This product contains a chemical known to the State of California to cause birth
	defects on other name destine house

defects or other reproductive harm.
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Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level.
Toluene	No	Yes	No	7000 µg/day (ingestion)
				13000 µg/day (inhalation)

International regulations	
International lists	: Australia inventory (AICS):Not determined
	: China inventory (IECSC): Not determined
	: Japan inventory : Not determined
	: Korea inventory: Not determined
	: Malaysia inventory (EHS Register): Not determined
	: New Zealand Inventory of Chemicals (NZIoC):Not determined
	: Philippines inventory ( PICCS): Not determined
	: Taiwan inventory (CSNN): Not determined
<b>Chemical Weapons</b>	: Not listed
<b>Convention List schedule I</b>	
Chemicals	
<b>Chemical Weapons</b>	: Not listed
Convention List schedule II	
Chemicals	NY - 11 - 1
Chemical Weapons	: Not listed
Convention List schedule III	
Chemicals	

### **16. Other information**

#### Hazardous Material Information System (USA)

#### Health -2

#### Physical hazards-0

Caution: HMIS<sup>®</sup> rating are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS<sup>®</sup> ratings are not required on SDSs under 29 CFR1910.1200, the preparer may choose to provide them. HMIS<sup>®</sup> ratings are to be used with fully implemented HMIS<sup>®</sup> program. HMIS<sup>®</sup> is a registered trademark of the National Paint & Coating Association (NPCA). HMIS<sup>®</sup> materials may be purchased exclusively from J.J. Keller.

The customer is responsible for determining the PPE code for this material.

#### National Fire Protection Association (USA) NFPA 704

#### Health -2 Flammability-3 Instability-0

Flammability-3

NFPA-704 was copyrighted by the National Fire Protection Association of Quincy, MA. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactive hazards of chemicals. The user is referred to certain limited number of with recommended classifications in NFPA 49 and NFPA 325, which would be used as guidelines only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Date of revision:	1/5/14
Date of previous issue	2/27/12
Revisions:	Revision to entire document for compliance of new HazCom rules.
Version	3
Prepared by	C. Rogalski

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