



## Material Safety Data Sheet

Product Name: HXTAL NYL-1 Epoxy Adhesive Part A (Resin)

SDS Date: 05/01/2015

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: HXTAL NYL-1 Part A (Resin)

Manufacturer: HXTAL Adhesive, LLC  
2000 Riverside Drive  
Box 10  
Asheville NC 28804  
828-348-7970

Emergency Phone number: ChemTel, Inc.  
Toll Free: 800-255-3924  
International: +813-248-0585

### 2. HAZARDS IDENTIFICATION

Classification of Substance Serious Eye Damage/ Eye Irritant- Category 2B  
Skin Sensitization - Category 1

GHS Labels



**Warning**

#### Hazard Statements

H320 Causes eye irritation

H317 May cause an allergic skin reaction

#### Precautionary Statements

HXTAL Adhesive, LLC. - HXTAL NYL-1 Part A SDS Sheets  
Revision Date 05/01/15

**General**

Not applicable

**Prevention**

Wear protective gloves

Wear eye or face protection

Avoid breathing vapor

Wash hands thoroughly after handling

Contaminated work clothing should not be allowed out of workplace

**Response**

**IF ON SKIN**

Wash with plenty of soap and water

Wash contaminated clothing before reuse

If skin irritation or rash occurs:

Get medical attention

**IF IN EYES**

Rinse cautiously with water for several minutes

Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists:

Get medical attention

**Storage**

Not applicable

**Disposal**

Dispose of contents and container in accordance with all local, regional, national, and international regulations

**Other Hazards which do not result in classification**

None known

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	CAS#	Concentration
Cyclohexanol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane	30583-72-3	100%

There are no additional ingredients present, which, within the current knowledge of the supplier and in the concentrations 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

## 4. FIRST AID MEASURES

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth to mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or waistband.
Skin Contact:	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Eye Contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
Ingestion:	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or waistband.

### Notes to Physician

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**HXTAL Adhesive, LLC. - HXTAL NYL-1 Part A SDS Sheets**  
**Revision Date 05/01/15**

Specific treatments	No specific treatment
Protection of first aid personnel	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth to mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

## **5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media:	Use an extinguishing agent suitable for the surrounding fire.
Extinguishing media which shall not be used for safety reasons:	None known
Specific hazards during fire fighting:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	Decomposition products may include the following materials:  carbon monoxide carbon dioxide aldehydes
Special protective action for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment, and emergency procedures

**HXTAL Adhesive, LLC. - HXTAL NYL-1 Part A SDS Sheets**  
**Revision Date 05/01/15**

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. 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 unsuitable materials. See also the information on "For non-emergency personnel"
Environmental precautions	Avoid dispersal 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 containment and cleaning up	
Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Approach release from up wind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material, eg sand, earth, vermiculite, or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. Note: See section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

**HXTAL Adhesive, LLC. - HXTAL NYL-1 Part A SDS Sheets**  
**Revision Date 05/01/15**

Protective measures	Put on appropriate personal protective equipment (see Section 8 of SDS). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material., kept tightly closed and when not in use. 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 this 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 also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## **8. EXPOSURE CONTROL / PERSONAL PROTECTION**

Occupational Exposure Limits	None.
Appropriate engineering controls	No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures	

**HXTAL Adhesive, LLC. - HXTAL NYL-1 Part A SDS Sheets**  
**Revision Date 05/01/15**

Hygiene measures	Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye and Face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts. If contact is possible, the following protection should be worn, unless the assessment indicate a higher degree of protection: chemical splash goggles.
Hand protection	Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. IN the case of mixtures consisting of several substances, the protection time of the glove cannot be accurately estimated.
Body protection	Perusal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	Appropriate footwear and any additional skin protection measure should be selected based on the tasks being performed and the risks involved and should be approved by a specialist before handling the product.
Respiratory protection	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicate this is necessary. Respirator selections must be based on known or anticipated exposure levels, the hazards of the product and the safe working times of the selected respirator.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Viscous liquid

**HXTAL Adhesive, LLC. - HXTAL NYL-1 Part A SDS Sheets**  
**Revision Date 05/01/15**

Color:	Colorless
Odor:	Odorless
Specific gravity:	1.09
Melting point/range:	10°C (50° F)
Flash point:	Typical 115° C (239° F)
Relative vapor density:	>1 (Air = 1.0)
Water solubility:	Negligible
Viscosity, dynamic:	1.8-2.5 Pas at 25° C (77° F) ASTM D-445

## **10. STABILITY AND REACTIVITY**

Reactivity	Stable under normal conditions.
Chemical stability	The product is stable
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	Strong oxidizer, caustic soda (sodium hydroxide) and induce vigorous polymerization at temperatures around 200°C
Incompatible materials	strong oxidizing agents sodium hydroxide
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should be produced

## **11. TOXICOLOGICAL INFORMATION**

Acute toxicity	Not available
Irritation/Corrosion	Not available
Sensitization	Not available
Mutagenicity	Not available
Carcinogenicity	Not available
Reproductive toxicity	Not available



**HXTAL Adhesive, LLC. - HXTAL NYL-1 Part A SDS Sheets**  
**Revision Date 05/01/15**

Teratogenicity	Not available
Specific target organ toxicity	Not available
Aspiration hazard	Not available
Information on the likely routes of exposure	Not available
Potential acute health effects	
Eye contact	Causes eye irritation
Inhalation	No known significant effects or critical hazards
Skin contact	May cause an allergic skin reaction
Ingestion	May be irritating to mouth, throat and stomach
Symptoms related to the physical, chemical, and toxicological characteristics	
Eye contact	Adverse symptoms may include the following: irritation watering redness
Inhalation	No specific data
Skin contact	Adverse symptoms may include the following: irritation redness
Ingestion	No specific data
Delayed and immediate effects and also chronic effects from short and long term exposure	
Short term exposure	
Potential immediate effects	Not available
Potential delayed effects	Not available
Long term exposure	
Potential immediate effects	Not available
Potential delayed effects	Not available
Potential chronic health effects	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

## 12. ECOLOGICAL INFORMATION

Toxicity	Not available
Persistence/degradability	Not available
Mobility in soil	No known significant effects or critical hazards

## 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 at all times comply with the requirement of environmental protection and waste disposal legislation and any regional local authority requirement. Dispose of surplus and non-recyclable products via a license waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. 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 emptied containers that have not been cleaned or rinsed out. Empty container or liners may retain some product residues. Avoid dispersal of spill material and runoff and contact with soil, waterway, drains, and sewers.
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## 14. TRANSPORT INFORMATION

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

<b>DOT Classification</b>	Not regulated for transport
<b>IATA Classification</b>	Not regulated for transport
<b>IMO/IMDG</b>	Not regulated for transport

## 15. REGULATORY INFORMATION

US Federal regulations	TSCA 12(b)- Chemical export notification- None required TSCA 5(a)2 - Final significant new use rules: Not listed TSCA 5(a)2 - Proposed significant new rules: Not listed TSCA 5(e) - Substance consent order: Not listed
California Prop 65	None required
United States TSCA 8b	All components are listed or exempted
WHMIS (Canada)	Class D-2B: Material causing other toxic effects (Toxic)
Canadian NPRI	None required
CEPA Toxic substances	None required

## 16. OTHER INFORMATION

	HMIS III
Health:	2
Flammability	1
Reactivity:	0
Personal Protection	0



## Material Safety Data Sheet

Product Name: HXTAL NYL-1 Epoxy Adhesive Part B (Hardener)  
SDS Date: 06/01/2015

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: HXTAL NYL-1 Part B (Hardener)  
Manufacturer: HXTAL Adhesive, LLC  
2000 Riverside Drive  
Box 10  
Asheville NC 28804  
828-348-7970  
Emergency Phone number: ChemTel, Inc.  
Toll Free: 800-255-3924  
International: +813-248-0585

### 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture (Hazard Pictograms):



GHS06 Skull and crossbones

Acute Toxic 3 H301 Toxic if swallowed



GHS05 Corrosion

Skin Corrosion 1C H314 Causes severe skin burns and eye damage  
Eye Damage 1 H318 Causes serious eye damage



GHS07

**HXTAL Adhesive, LLC. - HXTAL NYL-1 Part B SDS Sheets**  
**Revision Date 06/01/2015**

Acute Toxic	4	H312 Harmful in contact with skin
Acute Toxic	4	H332 Harmful if inhaled
Aquatic Chronic	4	H413 May cause long lasting harmful effects to aquatic life

**Hazard Statements:**

Toxic if swallowed  
Harmful in contact with skin or if inhaled  
Causes severe skin burns and eye damage  
May cause long lasting harmful effects to aquatic life.

**Precautionary Statements:**

Do not breathe dust or mists  
Avoid breathing dust/fumes/gas/mist/vapors/spray  
Use only outdoors in in a well ventilated area  
Wear protective gloves/protective clothing  
Wear eye protection/face protection  
Avoid release to the environment  
Wash thoroughly after handling  
Do not eat, drink, or smoke when using this product  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).  
If Swallowed: Immediately call a poison control center/doctor  
If Inhaled: Remove person to fresh air and keep comfortable for breathing.  
Call a Poison Center/doctor if you feel unwell.  
Wash contaminated clothing before re-use  
If Swallowed: Rinse mouth. DO NOT induce vomiting  
If on Skin: Wash with plenty of water  
Take off contaminated clothing and wash it before re-use  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

**Classification system:**

NFPA ratings (scale 0–4)  
Health = 3  
Fire = 0  
Reactivity = 0

HMIS ratings (scale 0–4)  
Health = 4  
Fire = 0  
Reactivity = 0

**Hazards not otherwise classified (HNOC): None known**

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	CAS#	Concentration
Polyoxypropylene triamine	39423-51-3	90–99%
Imidazole	288-32-4	5–10%

### 4. FIRST AID MEASURES

General Information	Immediately remove any clothing soiled by the product Symptoms of poisoning may occur after exposure to dust, fumes, or particulates; seek medical attention if feeling unwell. In case of irregular breathing or respiratory arrest provide artificial respiration.
After inhalation	In case of unconsciousness place patient stably in side position for transportation
After skin contact	Immediately wash with water and soap and rinse thoroughly. If skin irritation occurs, consult a doctor
After eye contact	Rinse open eye for several minutes under running water. Then consult a doctor.
After swallowing	Do not induce vomiting; immediately call for medical help. Drink copious amounts of water and provide fresh air. Immediately call a doctor.

#### Notes to Physician

Most important symptoms and effects, both acute and delayed:	No further relevant information available.
Indication of any immediate medical attention and special treatment needed:	No further relevant information available.

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	CO <sub>2</sub> extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Special hazards arising from the substance or mixture	No further relevant information available
Protective equipment	As in any fire, wear self contained breathing apparatus pressure demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear protective equipment. Keep unprotected persons away.
Environmental precautions:	Inform respective authorities in case of seepage into water course or sewage system. Do not allow got enter sewers/ surface or ground water.
Methods and material for containment and cleaning up	Absorb with liquid binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent Dispose contaminated material as waste according to section 13. Ensure adequate ventilation Dispose of the collected material according to regulations
Reference to other sections	See section 7 for information on safe handling See section 8 for information on personal protection See section 13 for disposal information

## 7. HANDLING AND STORAGE

### Handling

Precautions for safe handling	Ensure good ventilation/exhaustion at the workplace Prevent formation or aerosols
Information about protection against explosions and fires	No special measures required

**HXTAL Adhesive, LLC. - HXTAL NYL-1 Part B SDS Sheets**  
**Revision Date 06/01/2015**

Conditions for safe storage,  
including any  
incompatibilities:

Storage

Requirements to be met by  
storerooms and receptacles:

No special requirements

Information about storage in  
one common storage facility

No required

Further information about  
storage conditions

No further relevant information available

Specific end uses:

No further relevant information available

## **8. EXPOSURE CONTROL / PERSONAL PROTECTION**

Additional information about  
design of technical systems:

No further data, see section 7

Control parameters

Components with occupational  
exposure limits

The product does not contain any relevant quantities of  
materials with critical values that have to be monitored at the  
workplace.

Exposure controls

Personal protective equipment

General protective and  
hygienic measures:

The usual precautionary measures for handling chemicals  
should be followed  
Keep away from foodstuffs, beverages, and feed  
Immediately remove all soiled and contaminated clothing  
and wash before re-use  
Wash hands before breaks and at the end of work  
Avoid contact with the eyes  
Avoid contact with the eyes and skin

Breathing equipment

Not required

Protection of hands

Protective gloves:  
The glove material has to be impermeable and resistant to  
the product. Due to missing tests no recommendation to the  
glove material can be given for the product.



**HXTAL Adhesive, LLC. - HXTAL NYL-1 Part B SDS Sheets**  
**Revision Date 06/01/2015**

Material of gloves	The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application
Penetration time of glove material	The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.
Eye protection	Tightly sealed goggles

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Form:	viscous liquid
Color:	Colorless
Odor:	Ammoniacal
pH:	12.3
Water solubility:	Not miscible or difficult to mix
Boiling point/range:	256°C (493°F)
Flash point:	none
Relative vapor density:	>1 (Air = 1.0)
Vapor pressure:	not determined
Specific Gravity:	0.9812
Relative Density:	0.98 (Water = 1.0)
Viscosity, dynamic:	>80 CPS at 25° C
Auto igniting	Product is not self igniting
Danger of explosion	Product does not present an explosion hazard

## **10. STABILITY AND REACTIVITY**

Reactivity	No further relevant information available
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**HXTAL Adhesive, LLC. - HXTAL NYL-1 Part B SDS Sheets**  
**Revision Date 06/01/2015**

Chemical stability	Stable under normal conditions
Thermal decomposition/ conditions to be avoided	No decomposition if used according to specifications
Possibility of hazardous reactions	No dangerous reactions known
Conditions to avoid	No further relevant information available
Incompatible materials	No further relevant information available
Hazardous decomposition products	No dangerous decomposition products known

## **11. TOXICOLOGICAL INFORMATION**

Information on toxicological effects:

Acute toxicity:

LD/LC50 value that are relevant for classification:

288-32-4 Imidazole

<b>Oral</b>	LD50 - 880mg/kg (mouse)
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Primary irritant effect

On the skin	Strong caustic effect on skin and mucous membranes
On the eye	Strong irritant with the danger of severe eye injury Corrosive effect Causes serious eye irritation

### **Additional toxicological information**

The product shows the following dangers according to internally approved calculation methods for preparations:

Toxic

Harmful

Corrosive

**HXTAL Adhesive, LLC. - HXTAL NYL-1 Part B SDS Sheets**  
**Revision Date 06/01/2015**

**Irritant**

Swallowing will lead to a corrosive effect on mouth and throat and to the danger or perfrmion of esophagus and stomach

**Carcinogenic categories**

**IARC**

Group 1	Carcinogenic to humans
Group 2A	Probably carcinogenic to humans
Group 2B	Possible carcinogenic to humans
Group 3	Not classifiable as to its carcinogenicity to humans
Group 4	Probably not carcinogenic to humans

None of the ingredients are listed

NTP                                      National Toxicological Program

None of the ingredients are listed

**OSHA-Ca**

None of the ingredients are listed

## **12. ECOLOGICAL INFORMATION**

**Toxicity:**

**Aquatic toxicity**

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution

Persistence and degradability      No further relevant information availalbe

Bioaccumulative potential              No further relevant information availalbe

Mobility in soil                              No further relevant information availalbe

Additional ecological  
information

General notes

**HXTAL Adhesive, LLC. - HXTAL NYL-1 Part B SDS Sheets**  
**Revision Date 06/01/2015**

Do not allow precut to reach ground water, water course, or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground.

Rinse off bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use level pH-value is considerably reduced, so that after the use of the product aqueous waste, emptied into drains is only low water-dangerous.

Results of PBT and vPvB assesment:

PBT: Not applicable

vPvB: Not applicable

Other adverse effects: No further relevant information available

### **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods:

Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material

Uncleaned packagings

Recommendation

Disposal must be made according to official regulations

### **14. TRANSPORT INFORMATION**

**DOT Classification:**

Proper shipping name: Corrosive liquids, toxic, n.o.s. (Polyoxypropylene triamine, imidazole)

Class: 8(6.1)

UN ID#: UN2922

Packing Group: III

**IATA Classification:**

**HXTAL Adhesive, LLC. - HXTAL NYL-1 Part B SDS Sheets**  
**Revision Date 06/01/2015**

Proper shipping name:	Corrosive liquids, toxic, n.o.s. (Polyoxypropylene triamine, imidazole)
Class:	8(6.1)
UN ID#:	2922
Packing Group:	III

## **15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture:

SARA

Section 355 (extremely hazardous substances)	None of the ingredients are listed
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Section 313 (specific toxic chemical listings)	None of the ingredients are listed
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TSCA	All ingredients are listed
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California Prop 65 (Chemicals known to cause cancer):	None of the ingredients are listed
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Chemicals known to cause reproductive toxicity for females	None of the ingredients are listed
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Chemicals known to cause reproductive toxicity for males:	None of the ingredients are listed
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Chemicals known to cause developmental toxicity	None of the ingredients are listed
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Carcinogenic categories

EPA	None of the ingredients are listed
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TLV	None of the ingredients are listed
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NIOSH-Ca	None of the ingredients are listed
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## **16. OTHER INFORMATION**

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The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.