

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Trade name : Universal No-Tape 304-12T

#### 1.2. Recommended use and restrictions on use

Recommended use : Thermal barrier  
Restrictions on use : All other uses not recommended above

#### 1.3. Supplier

Azon USA Inc.  
2204 Ravine Rd  
Kalamazo, Michigan 49004  
United states of America  
T 269-385-5942

#### 1.4. Emergency telephone number

Emergency number : For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night: 1-800-424-9300 (Toll Free, USA) / 703-527-3887 (Virgina, USA)  
CCN 2189

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Acute toxicity (oral) Category 4	Harmful if swallowed
Serious eye damage/eye irritation Category 2A	Causes serious eye irritation
Skin sensitization, Category 1	May cause an allergic skin reaction
Carcinogenicity Category 2	Suspected of causing cancer
Specific target organ toxicity (repeated exposure) Category 2	May cause damage to organs through prolonged or repeated exposure
Hazardous to the aquatic environment – Chronic Hazard Category 2	Toxic to aquatic life with long lasting effects

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Warning

Hazard statements (GHS US) :

Harmful if swallowed  
May cause an allergic skin reaction  
Causes serious eye irritation  
Suspected of causing cancer  
May cause damage to organs through prolonged or repeated exposure  
Toxic to aquatic life with long lasting effects

Precautionary statements (GHS US) :

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.

# Universal No-Tape 304-12T

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Do not breathe vapors.  
Wash hands, forearms and face thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing must not be allowed out of the workplace.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If swallowed: Call a poison center or doctor if you feel unwell.  
Rinse mouth.  
If on skin: Wash with plenty of water.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
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 advice/attention.  
Get medical advice/attention if you feel unwell.  
Collect spillage.  
Store locked up.  
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

71.3% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

93.4% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Diethylene Glycol-phthalic Anhydride Polymer	CAS-No.: 32472-85-8	8 – 18	Aquatic Chronic 3, H412
Diethylene glycol	CAS-No.: 111-46-6	7 – 16	Acute Tox. 4 (Oral), H302 Eye Irrit. 2B, H320
Diethyl toluene diamine	CAS-No.: 68479-98-1	3 – 8	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2, H319 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Ethylene Glycol	CAS-No.: 107-21-1	2 – 5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2B, H320 STOT RE 2, H373
Carbon black	CAS-No.: 1333-86-4	< 1.5	Carc. 2, H351 STOT RE 1, H372

# Universal No-Tape 304-12T

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%	GHS US classification
Aniline	CAS-No.: 62-53-3	< 1.5	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Bis-(dodecylthio)-dimethylstannane	CAS-No.: 51287-84-4	< 1.5	Acute Tox. 4 (Oral), H302 Aquatic Chronic 3, H412

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention. First aider: Pay attention to self-protection. Never give anything by mouth to an unconscious person. Give artificial respiration if necessary. Induce artificial respiration with mask fitted with one-way valve or other suitable device but not mouth-to-mouth.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim is unconscious : Lay in a stable manner on victim's side. Induce artificial respiration with mask fitted with one-way valve or other suitable device; not mouth-to-mouth. Call a physician immediately. Symptoms may be delayed. Depending on the degree of exposure, periodic medical surveillance is required.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Immediately call a poison center or doctor/physician.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: May be harmful if swallowed.
Most Important Symptoms/Effects	: Suspected of causing cancer.
Chronic symptoms	: May cause damage to organs.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide. Alcohol-resistant foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.

# Universal No-Tape 304-12T

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 5.2. Specific hazards arising from the chemical

Fire hazard	: No fire hazard.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon monoxide. Carbon dioxide. Nitrogen oxides.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Use self-contained breathing apparatus and chemically protective clothing. Full face piece respirator.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Avoid all personal contact including breathing in the vapors, spray, mist, gas. Do not take actions involving personal risks. Absorb spillage to prevent material-damage. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.
------------------	---

#### 6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Evacuate the danger area. If outdoors, move to an area upwind of the danger area. If possible without taking personal risks, ventilate area, remove ignition sources. Do not breathe vapors, spray, mist, gas. Avoid contact with skin and eyes. Prevent other non-emergency personnel from entering the danger area.

#### 6.1.2. For emergency responders

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Evacuate personnel to a safe area. Stop leak if safe to do so. Ventilate spillage area.

### 6.2. Environmental precautions

Avoid release to the environment. Do not let the product reach soil, drains, sewers, or surface and ground water. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

For containment	: Stop leak, if possible without risk. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Contain with non-combustible inert absorbent. Collect spillage.
Methods for cleaning up	: Take up in non-combustible inert absorbent and place into container for disposal. Contaminated absorbent material may pose the same hazard as the spilt product. Decontaminate surfaces and equipment with water and detergent. Notify authorities if product enters sewers or public waters. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Ensure good ventilation of the work station. Do not breathe vapors, mist, spray, gas.
-------------------------------	---

# Universal No-Tape 304-12T

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.  
Storage conditions : Protect from sunlight. Store in a cool, well-ventilated place. Store carefully closed containers upright to prevent any leaks. Store locked up. Use appropriate container to avoid environmental contamination.  
Incompatible materials : Metals. Strong oxidizing agents.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Universal No-Tape 304-12T

No additional information available

#### Diethylene Glycol-phthalic Anhydride Polymer (32472-85-8)

No additional information available

#### Diethylene glycol (111-46-6)

No additional information available

#### Ethylene Glycol (107-21-1)

##### USA - ACGIH - Occupational Exposure Limits

Local name	Ethylene glycol
ACGIH OEL TWA	25 ppm (V - Vapor fraction)
ACGIH OEL STEL	10 mg/m <sup>3</sup> (I - Inhalable particulate matter, H - Aerosol only) 50 ppm (V - Vapor fraction)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2024

#### Diethyl toluene diamine (68479-98-1)

No additional information available

#### Carbon black (1333-86-4)

##### USA - ACGIH - Occupational Exposure Limits

Local name	Carbon black
ACGIH OEL TWA	3 mg/m <sup>3</sup> (I - Inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2024

##### USA - OSHA - Occupational Exposure Limits

Local name	Carbon black
OSHA PEL TWA	3.5 mg/m <sup>3</sup>
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

# Universal No-Tape 304-12T

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Aniline (62-53-3)

No additional information available

### Bis-(dodecylthio)-dimethylstannane (51287-84-4)

No additional information available

## 8.2. Appropriate engineering controls

- Appropriate engineering controls : Use general ventilation, local exhaust ventilation or process enclosure to keep the airborne concentrations below the permissible exposure limits.
- Environmental exposure controls : Take measures to reduce or limit air emissions and releases to soil and the aquatic environment.

## 8.3. Individual protection measures/Personal protective equipment

### Personal protective equipment:

Personal protective equipment should be chosen according to national standards and in discussion with the supplier of the protective equipment. Wear recommended personal protective equipment.

#### Hand protection:

Chemically impervious gloves as described by OSHA's hand protection regulations in 29 CFR 1910.138

#### Eye protection:

Chemical goggles or safety glasses

#### Skin and body protection:

Wear suitable protective clothing. Body protection should be chosen depending on activity and possible exposure

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid.
Appearance	: Clear liquid.
Color	: Clear purple to black.
Odor	: Slight
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 93.33 °C / 200 °F
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 1.072 – 1.084

# Universal No-Tape 304-12T

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Incompatible materials.

### 10.5. Incompatible materials

Metals. Oxidizing agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates : Nitrogen oxides. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

#### Universal No-Tape 304-12T

ATE US (oral)	660.362 mg/kg body weight
Unknown acute toxicity (GHS US)	71.3% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 93.4% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

#### Diethylene Glycol-phthalic Anhydride Polymer

LD50 dermal rat	> 2000 mg/kg
-----------------	--------------

# Universal No-Tape 304-12T

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>Diethylene glycol</b>	
LD50 oral rat	12000 mg/kg
LD50 dermal rabbit	11890 mg/kg
<b>Ethylene Glycol</b>	
LD50 oral rat	4700 mg/kg body weight
LD50 dermal rat	9530 mg/kg body weight
<b>Diethyl toluene diamine</b>	
LD50 oral rat	472 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 2.45 mg/l
<b>Carbon black</b>	
LD50 oral rat	> 8000 mg/kg body weight
LD50 dermal rabbit	> 2000 mg/kg body weight
<b>Aniline</b>	
LD50 oral rat	442 mg/kg
LD50 dermal rabbit	836 mg/kg
LC50 Inhalation - Rat [ppm]	478 ppm
LC50 Inhalation - Rat (Dust/Mist)	1.82 mg/l/4h
LC50 Inhalation - Rat (Vapours)	0.95 mg/l/4h
<b>Bis-(dodecylthio)-dimethylstannane</b>	
LD50 oral rat	1150 mg/kg body weight
Skin corrosion/irritation	: Not classified
<b>Ethylene Glycol</b>	
Skin corrosion/irritation, rabbit	Not irritating to skin
<b>Carbon black</b>	
Skin corrosion/irritation, rabbit	Not irritating
<b>Aniline</b>	
pH	8.1
Serious eye damage/irritation	: Causes serious eye irritation.
<b>Diethylene glycol</b>	
Serious eye damage/irritation, rabbit	Slightly irritating
<b>Ethylene Glycol</b>	
Serious eye damage/irritation, rabbit	<40% Irritating to eyes (Fully reversible effects within 7 days of observation)
<b>Carbon black</b>	
Serious eye damage/irritation, rabbit	Not irritating



# Universal No-Tape 304-12T

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>Aniline</b>	
pH	8.1
Respiratory or skin sensitization	: May cause an allergic skin reaction.
<b>Ethylene Glycol</b>	
Guinea pig maximization test	Not sensitive
Skin sensitization, human	Not sensitive
<b>Carbon black</b>	
Local Lymph Node Assay	Not sensitive
<b>Aniline</b>	
Skin sensitization, Local Lymph Node Assay, mouse	Sensitiser
Germ cell mutagenicity	: Not classified
<b>Ethylene Glycol</b>	
Additional information	Dominant lethal test, Rat- Negative
Carcinogenicity	: Suspected of causing cancer.
<b>Diethylene glycol</b>	
NOAEL (chronic,oral,animal/male,2 years)	1210 mg/kg body weight
NOAEL (chronic,oral,animal/female,2 years)	1160 mg/kg body weight
<b>Carbon black</b>	
IARC group	2B - Possibly carcinogenic to humans
<b>Aniline</b>	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
<b>Diethylene glycol</b>	
LOAEL (oral,rat,90 days)	40000 mg/kg body weight
<b>Ethylene Glycol</b>	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
<b>Diethyl toluene diamine</b>	
LOAEL (dermal,rat/rabbit,90 days)	≥ 10 mg/kg body weight
NOAEL (oral,rat,90 days)	21 mg/kg bw/day
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
<b>Carbon black</b>	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.0071 mg/l air
NOAEL (oral,rat,90 days)	> 1000 mg/kg body weight
NOAEC (inhalation,rat,dust/mist/fume,90 days)	0.0011 mg/l air
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

# Universal No-Tape 304-12T

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>Aniline</b>	
LOAEC (inhalation, rat, vapor, 90 days)	0.0326 mg/l air
NOAEC (inhalation, rat, vapor, 90 days)	0.0092 mg/l air
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified  
Viscosity, kinematic : No data available

<b>Aniline</b>	
Viscosity, kinematic	4.265 mm <sup>2</sup> /s

Symptoms/effects after skin contact : May cause an allergic skin reaction.  
Symptoms/effects after eye contact : Causes serious eye damage.  
Symptoms/effects after ingestion : May be harmful if swallowed.  
Most Important Symptoms/Effects : Suspected of causing cancer.  
Chronic symptoms : May cause damage to organs.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

<b>Universal No-Tape 304-12T</b>	
EC50 - Crustacea [1]	11.46 mg/l

<b>Diethylene Glycol-phthalic Anhydride Polymer</b>	
LC50 - Fish [1]	≥ 100 mg/l
ErC50 algae	157.4 mg/l

<b>Diethylene glycol</b>	
LC50 - Fish [1]	75200 mg/l
EC50 96h - Algae [1]	6500 – 13000 mg/l
EC50 96h - Algae [2]	9362 mg/l
NOEC (chronic)	≥ 1000 mg/l

<b>Ethylene Glycol</b>	
LC50 - Fish [1]	> 72860 mg/l
EC50 - Crustacea [1]	> 100 mg/l
NOEC (chronic)	≥ 1000 mg/l
NOEC chronic fish	32000 mg/l (7 days)
NOEC chronic crustacea	24000 ml/l (48h)

<b>Diethyl toluene diamine</b>	
LC50 - Fish [1]	> 106 mg/l
EC50 - Crustacea [1]	5.8 mg/l
ErC50 algae	104 mg/l

# Universal No-Tape 304-12T

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>Carbon black</b>	
EC50 - Crustacea [1]	> 1000 mg/l
EC50 72h - Algae [1]	> 10000 mg/l
EC50 72h - Algae [2]	> 10000 mg/l

  

<b>Aniline</b>	
LC50 - Fish [1]	10.6 mg/l
EC50 - Crustacea [1]	0.1 mg/l
EC50 72h - Algae [1]	175 mg/l
ErC50 algae	175 mg/l
NOEC (chronic)	0.016 mg/l
NOEC chronic fish	0.39 mg/l
NOEC chronic crustacea	0.004 mg/l

  

<b>Bis-(dodecylthio)-dimethylstannane</b>	
EC50 - Crustacea [1]	32 mg/l
EC50 72h - Algae [1]	270 mg/l
EC50 72h - Algae [2]	120 mg/l

  

<b>12.2. Persistence and degradability</b>	
<b>Universal No-Tape 304-12T</b>	
Persistence and degradability	Not established.
<b>Diethyl toluene diamine</b>	
Persistence and degradability	Not rapidly degradable.

  

<b>12.3. Bioaccumulative potential</b>	
<b>Universal No-Tape 304-12T</b>	
Partition coefficient n-octanol/water (Log Pow)	Not applicable
Bioaccumulative potential	Not established.
<b>Diethylene Glycol-phthalic Anhydride Polymer</b>	
Partition coefficient n-octanol/water (Log Pow)	0.9 – 1.9
<b>Diethylene glycol</b>	
Partition coefficient n-octanol/water (Log Pow)	-1.47
<b>Ethylene Glycol</b>	
Bioaccumulative potential	Does not bioaccumulate.
<b>Diethyl toluene diamine</b>	
Partition coefficient n-octanol/water (Log Pow)	1.38

# Universal No-Tape 304-12T

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Aniline	
BCF - Fish [1]	2.6 l/kg
Partition coefficient n-octanol/water (Log Pow)	0.91

### 12.4. Mobility in soil

Diethyl toluene diamine	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.12

Aniline	
Mobility in soil	8 – 497.7
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.49136169 – 2.95904139

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Dispose of this material and its container at hazardous or special waste collection point. Refer to all applicable national, international and local regulations or provisions.
Additional information	: Do not re-use empty containers.
Ecological information	: Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT: ≤5 L or ≤5 kg per complete package: Not regulated.

Non-bulk packages of this product are not regulated as hazardous materials unless transported by inland waterway.

>5 L or >5 kg per complete package: Regulated (see below)

TDG: Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail.

IMDG: ≤5 L or ≤5 kg per complete package: Not regulated.

>5 L or >5 kg per complete package: Regulated (see below)

IATA: ≤5 L or ≤5 kg per complete package: Not regulated.

>5 L or >5 kg per complete package: Regulated (see below)

DOT	TDG	IMDG	IATA
14.1. UN number			
3082	UN3082	3082	3082

# Universal No-Tape 304-12T

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT	TDG	IMDG	IATA
<b>14.2. Proper Shipping Name</b>			
Environmentally hazardous substances, liquid, n.o.s. (Diethyl toluene diamine)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diethyl toluene diamine)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diethyl toluene diamine)	Environmentally hazardous substance, liquid, n.o.s. (Diethyl toluene diamine)
<b>14.3. Transport hazard class(es)</b>			
9	9	9	9
<b>14.4. Packing group</b>			
III	III	III	III
<b>14.5. Environmental hazards</b>			
Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes
No supplementary information available			

### 14.6. Special precautions for user

**DOT**

UN-No.(DOT) : UN3082

DOT Packaging Exceptions (49 CFR 173.xxx) : 155

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203

DOT Packaging Bulk (49 CFR 173.xxx) : 241

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : No Limit

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : No Limit

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

**TDG**

UN-No. (TDG) : UN3082

# Universal No-Tape 304-12T

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

TDG Special Provisions	: 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS, 99 - (1) Mixtures of solids that are not dangerous goods and liquids or solids that are UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, or UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, may be handled, offered for transport or transported as UN3077 if there is no visible liquid when the dangerous goods are loaded into a means containment and during transport. (2) These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to the handling, offering for transport or transporting of less than 450 kg of UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, or less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, on a road vehicle or a railway vehicle. The dangerous goods must be contained in one or more small means of containment designed, constructed, filled, closed, secured and maintained so that under normal conditions of transport, including handling, there will be no accidental release of the dangerous goods that could endanger public safety.
Explosive Limit and Limited Quantity Index	: 5 L
Excepted quantities (TDG)	: E1
Emergency Response Guide (ERG) Number	: 171
<b>IMDG</b>	
Special provision (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
Packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS
Stowage category (IMDG)	: A
<b>IATA</b>	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L

# Universal No-Tape 304-12T

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ERG code (IATA) : 9L

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Ethylene Glycol	CAS-No. 107-21-1	2 – 5%
Aniline	CAS-No. 62-53-3	< 1.5%

#### Ethylene Glycol (107-21-1)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	5000 lb
-----------	---------

#### Aniline (62-53-3)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	5000 lb
-----------	---------

RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb
--	---------

SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb
--	---------

### 15.2. International regulations

#### CANADA

##### Diethylene Glycol-phthalic Anhydride Polymer (32472-85-8)

Listed on the Canadian DSL (Domestic Substances List)

##### Diethylene glycol (111-46-6)

Listed on the Canadian DSL (Domestic Substances List)

##### Ethylene Glycol (107-21-1)

Listed on the Canadian DSL (Domestic Substances List)

##### Diethyl toluene diamine (68479-98-1)

Listed on the Canadian DSL (Domestic Substances List)

# Universal No-Tape 304-12T

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Carbon black (1333-86-4)

Listed on the Canadian DSL (Domestic Substances List)

### Aniline (62-53-3)

Listed on the Canadian DSL (Domestic Substances List)

### Bis-(dodecylthio)-dimethylstannane (51287-84-4)

Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations

No additional information available

### National regulations

#### Diethylene glycol (111-46-6)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### Ethylene Glycol (107-21-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### Diethyl toluene diamine (68479-98-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Carbon black (1333-86-4)

Listed on IARC (International Agency for Research on Cancer)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Aniline (62-53-3)

Listed on IARC (International Agency for Research on Cancer)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 15.3. US State regulations



#### WARNING:

This product can expose you to Carbon black (airborne, unbound particles of respirable size), which is known to the State of California to cause cancer, and Ethylene glycol (ingested), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date

: 3/19/2024

### Full text of H-phrases

H227	Combustible liquid
H301	Toxic if swallowed
H302	Harmful if swallowed



# Universal No-Tape 304-12T

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>Full text of H-phrases</b>	
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H331	Toxic if inhaled
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

<b>Abbreviations and acronyms</b>	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration

# Universal No-Tape 304-12T

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>Abbreviations and acronyms</b>	
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.