

SECTION 1: Identification of the substance or mixture and of the supplier

1.1. GHS product identifier or other means of identification of the product/chemicals

Product form : Mixture
Trade name : Universal No-Tape 304-12T
UN-No.(UN RTDG) : 3082

1.2. Recommended use and restriction on use

Recommended use : Thermal barrier polymer (Part B)
Restrictions on use : All other uses not recommended above

1.3. Supplier's details

Manufacturer

Azon USA Inc.
2204 Ravine Rd
49004 Kalamazoo Michigan
USA
T 269-385-5942

Manufacturer

Azon Asia Inc.
168 Joongwon Ind Rd. Judeok
CB 27459 KOR Chungju
South Korea
T +82 (0) 43 840 0500

1.4. Emergency phone number

Emergency number : For 24/7 multilingual advice for spill, leak, fire, exposure, or accident call CHEMTREC at +65 3163 8374 (Singapore, multilingual) and provide CCN 2189
Back-up Emergency Number: +1-703-527-3887 (USA, English Only)

SECTION 2: Hazards identification

2.1. GHS classification

Classification according to circular 32/2017/TT-BCT

Acute toxicity (oral), Category 4	Harmful if swallowed.
Acute toxicity (dermal), Category 5	May be harmful in contact with skin.
Serious eye damage/eye irritation, Category 2A	Causes serious eye irritation.
Hazardous to the aquatic environment – Chronic Hazard, Category 2	Toxic to aquatic life with long lasting effects.

2.2. GHS label elements

Hazard pictograms (GHS VN) :



Signal word (GHS VN) :

Warning

Contains :

Glycerol propylene oxide; Diethylene glycol; Ethylene Glycol; Diethyl toluene diamine

Hazard statements (GHS VN) :

H302 - Harmful if swallowed
H313 - May be harmful in contact with skin
H319 - Causes serious eye irritation
H411 - Toxic to aquatic life with long lasting effects
P264 - Wash hands thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell
P330 - Rinse mouth
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 - If eye irritation persists: Get medical advice/attention
P312 - Call a POISON CENTER/doctor/physician if you feel unwell

Universal No-Tape 304-12T

Safety Data Sheet

according to Circular 17/2022/TT-BCT

P391 - Collect spillage

P501 - 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

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to circular 32/2017/TT-BCT
Glycerol propylene oxide	CAS-No.: 25791-96-2	10 – 20	Acute Tox. 5 (Oral), H303 Acute Tox. 5 (Dermal), H313 STOT RE Not classified Aquatic Acute Not classified Aquatic Chronic Not classified
Diethylene glycol	CAS-No.: 111-46-6	6-16	Flam. Liq. Not classified Pyr. Liq. Not classified Acute Tox. 4 (Oral), H302 Acute Tox. Not classified (Dermal) Skin Corr./Irrit. Not classified Eye Irrit. 2B, H320 Skin Sens. Not classified Repr. Not classified STOT RE Not classified Aquatic Acute Not classified Aquatic Chronic Not classified
Diethylene Glycol-phthalic Anhydride Polymer	CAS-No.: 32472-85-8	8 – 18	Flam. Liq. Not classified Acute Tox. Not classified (Dermal) Aquatic Acute Not classified Aquatic Chronic 3, H412
Diethyl toluene diamine	CAS-No.: 68479-98-1	3 – 8	Flam. Liq. Not classified Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2A, H319 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Ethylene Glycol	CAS-No.: 107-21-1	2 – 5	Flam. Liq. Not classified Pyr. Liq. Not classified Acute Tox. 4 (Oral), H302 Acute Tox. Not classified (Dermal) Acute Tox. Not classified (Inhalation:dust,mist) Skin Corr./Irrit. Not classified Eye Irrit. 2B, H320 STOT SE Not classified STOT RE 2, H373 Aquatic Acute Not classified Aquatic Chronic Not classified

Universal No-Tape 304-12T

Safety Data Sheet

according to Circular 17/2022/TT-BCT

Name	Product identifier	%	Classification according to circular 32/2017/TT-BCT
Carbon black	CAS-No.: 1333-86-4	< 1	Pyr. Sol. Not classified Self-heat. Not classified Acute Tox. Not classified (Oral) Acute Tox. 5 (Dermal), H313 Skin Corr./Irrit. Not classified Eye Dam./Irrit. Not classified Carc. 2, H351 STOT RE 1, H372 Aquatic Acute Not classified Aquatic Chronic Not classified

Full text of 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 areas 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/doctor.
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/doctor.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	: Causes eye irritation.
Symptoms/effects after ingestion	: Harmful if swallowed.
Chronic symptoms	: May cause damage to organs through prolonged or repeated exposure.

4.3. Indication of immediate medical attention and special treatment needed

Other medical advice or treatment	: Treat symptomatically.
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SECTION 5: Fire-fighting measures

5.1. Suitable 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.

5.2. Specific hazards that form when the chemical burns

Fire hazard	: No fire hazard.
Explosion hazard	: No direct explosion hazard.

Universal No-Tape 304-12T

Safety Data Sheet

according to Circular 17/2022/TT-BCT

General measures	: Avoid all personal contact including breathing in the vapours, 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.
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon monoxide. Carbon dioxide. Nitrogen oxides.

5.3. Protective equipment and clothing and necessary warnings 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.
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SECTION 6: Accidental release measures

6.1. Protective equipment and incident response procedures

General measures	: Avoid all personal contact including breathing in the vapours, 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.
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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 vapours, 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 materials for containment and cleaning up

For containment	: Stop leak without risks if possible. 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.

SECTION 7: Handling and storage

7.1. Measures and conditions for safe handling of hazardous chemicals

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

7.2. Measures and conditions for safe storage

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.

Universal No-Tape 304-12T

Safety Data Sheet

according to Circular 17/2022/TT-BCT

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ethylene Glycol (107-21-1)

Vietnam - Occupational Exposure Limits

Local name	Etylen glycol # Ethylene glycol
OEL TWA	10 mg/m ³ (son khí, hạt, mù sương) 60 mg/m ³ (hơi)
OEL STEL	20 mg/m ³ (son khí, hạt, mù sương) 125 mg/m ³ (hơi)
Regulatory reference	QUYẾT ĐỊNH Về việc ban hành 21 tiêu chuẩn vệ sinh lao động, 05 nguyên tắc và 07 thông số vệ sinh lao động, Số: 3733/2002/QĐ-BYT

Carbon black (1333-86-4)

Vietnam - Occupational Exposure Limits

Local name	Muội than # Carbon black
OEL TWA	3.5 mg/m ³
OEL STEL	7 mg/m ³
Regulatory reference	QUYẾT ĐỊNH Về việc ban hành 21 tiêu chuẩn vệ sinh lao động, 05 nguyên tắc và 07 thông số vệ sinh lao động, Số: 3733/2002/QĐ-BYT

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.

8.3. Personal protective measures and 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:

Wear protective gloves

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):



Environmental exposure controls : Take measures to reduce or limit air emissions and releases to soil and the aquatic environment.

Universal No-Tape 304-12T

Safety Data Sheet

according to Circular 17/2022/TT-BCT

SECTION 9: Physical and chemical properties

Physical state	: Liquid
Boiling point	: No data available
Colour	: Clear purple to black.
Melting point	: Not applicable
Odour	: Slight
Flash point	: > 93.33 °C / 200 °F
Vapour pressure	: No data available
Auto-ignition temperature	: No data available
Relative vapour density at 20°C	: No data available
Explosive limits	: No data available
Solubility	: No data available
pH	: No data available
Density	: No data available

Others

Appearance	: Clear liquid.
Flammability (solid, gas)	: Not applicable
Relative density	: 1.072 – 1.084
Partition coefficient n-octanol/water (Log Pow)	: Not applicable.

SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport
Chemical stability	: Stable under normal conditions of use.
Hazardous reaction	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Incompatible materials.
Incompatible materials	: Metals, Oxidizing agents
Decomposition and 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. Acute toxicity

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: May be harmful in contact with skin.
Acute toxicity (inhalation)	: Not classified

Universal No-Tape 304-12T	
ATE VN (oral)	707 mg/kg bodyweight
ATE VN (dermal)	3004 mg/kg bodyweight
Glycerol propylene oxide (25791-96-2)	
LD50 oral rat	> 2000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight
Diethylene Glycol-phthalic Anhydride Polymer (32472-85-8)	
LD50 dermal rat	> 2000 mg/kg
Diethylene glycol (111-46-6)	
LD50 oral rat	12000 mg/kg
LD50 oral	15600 mg/kg
LD50 dermal rabbit	11890 mg/kg

Universal No-Tape 304-12T

Safety Data Sheet

according to Circular 17/2022/TT-BCT

Diethylene glycol (111-46-6)	
LD50 dermal	13300 mg/kg
Ethylene Glycol (107-21-1)	
LD50 oral rat	4700 mg/kg bodyweight
LD50 dermal rat	9530 mg/kg bodyweight
Diethyl toluene diamine (68479-98-1)	
LD50 oral rat	472 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 2.45 mg/l
Carbon black (1333-86-4)	
LD50 oral rat	> 8000 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg bodyweight
Skin corrosion/irritation	: Not classified
Ethylene Glycol (107-21-1)	
Skin corrosion/irritation, rabbit	Not irritating to skin
Carbon black (1333-86-4)	
Skin corrosion/irritation, rabbit	Not irritating
Serious eye damage/eye irritation	: Causes serious eye irritation.
Diethylene glycol (111-46-6)	
Serious eye damage/irritation, rabbit	Slightly irritating
Ethylene Glycol (107-21-1)	
Serious eye damage/irritation, rabbit	<40% Irritating to eyes (Fully reversible effects within 7 days of observation)
Carbon black (1333-86-4)	
Serious eye damage/irritation, rabbit	Not irritating
Respiratory sensitization/ Skin sensitization	: Not classified
Ethylene Glycol (107-21-1)	
Guinea pig maximization test	Not sensitive
Skin sensitization, human	Not sensitive
Carbon black (1333-86-4)	
Local Lymph Node Assay	Not sensitive
Germ cell mutagenicity	: Not classified
Ethylene Glycol (107-21-1)	
Germ cell mutagenicityDominant lethal test, rat	Negative
Carcinogenicity	: Not classified
Diethylene glycol (111-46-6)	
NOAEL (chronic, oral, animal/male, 2 years)	1210 mg/kg bodyweight
NOAEL (chronic, oral, animal/female, 2 years)	1160 mg/kg bodyweight
Carbon black (1333-86-4)	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Not classified

Universal No-Tape 304-12T

Safety Data Sheet

according to Circular 17/2022/TT-BCT

Glycerol propylene oxide (25791-96-2)	
NOAEL (animal/male, F0/P)	≥ 1000 mg/kg bodyweight
NOAEL (animal/female, F0/P)	300 mg/kg bodyweight
Specific target organ toxicity- single exposure	: Not classified
Specific target organ toxicity- repeated exposure	: Not classified
Glycerol propylene oxide (25791-96-2)	
NOAEL (oral, rat, 90 days)	≥ 1000 mg/kg bodyweight
Diethylene glycol (111-46-6)	
LOAEL (oral, rat, 90 days)	40000 mg/kg bodyweight
Ethylene Glycol (107-21-1)	
Specific target organ toxicity- repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Diethyl toluene diamine (68479-98-1)	
LOAEL (dermal, rat/rabbit, 90 days)	≥ 10 mg/kg bodyweight
NOAEL (dermal, rat/rabbit, 28 days)	100 mg/kg bw/day
NOAEL (oral, rat, 90 days)	21 mg/kg bw/day
Specific target organ toxicity- repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Carbon black (1333-86-4)	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.0071 mg/l air
NOAEL (oral, rat, 90 days)	> 1000 mg/kg bodyweight
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.0011 mg/l air
Specific target organ toxicity- repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified.
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects.

Universal No-Tape 304-12T	
EC50 - Crustacea [1]	11.46 mg/l
Partition coefficient n-octanol/water (Log Pow)	Not applicable.
Glycerol propylene oxide (25791-96-2)	
LC50 - Fish [1]	218000 mg/l
EC50 - Crustacea [1]	> 100 mg/l
EC50 72h - Algae [1]	> 100 mg/l
LOEC (chronic)	> 10 mg/l
NOEC (chronic)	≥ 10 mg/l
Diethylene Glycol-phthalic Anhydride Polymer (32472-85-8)	
LC50 - Fish [1]	≥ 100 mg/l
ErC50 algae	157.4 mg/l

Universal No-Tape 304-12T

Safety Data Sheet

according to Circular 17/2022/TT-BCT

Diethylene Glycol-phthalic Anhydride Polymer (32472-85-8)	
Partition coefficient n-octanol/water (Log Pow)	0.9 – 1.9
Diethylene glycol (111-46-6)	
LC50 - Fish [1]	75200 mg/l
NOEC (chronic)	≥ 1000 mg/l
Partition coefficient n-octanol/water (Log Pow)	-1.47
Ethylene Glycol (107-21-1)	
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)
Diethyl toluene diamine (68479-98-1)	
LC50 - Fish [1]	> 106 mg/l
EC50 - Crustacea [1]	5.8 mg/l
ErC50 algae	104 mg/l
Partition coefficient n-octanol/water (Log Pow)	1.38
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.12
Carbon black (1333-86-4)	
EC50 - Crustacea [1]	> 1000 mg/l
EC50 72h - Algae [1]	> 10000 mg/l
EC50 72h - Algae [2]	> 10000 mg/l

12.2. Persistence and degradability

Universal No-Tape 304-12T	
Persistence and degradability	Not established.
Glycerol propylene oxide (25791-96-2)	
Persistence and degradability	Not rapidly degradable
Diethylene Glycol-phthalic Anhydride Polymer (32472-85-8)	
Persistence and degradability	Not rapidly degradable
Diethylene glycol (111-46-6)	
Persistence and degradability	Not rapidly degradable
Ethylene Glycol (107-21-1)	
Persistence and degradability	Not rapidly degradable
Diethyl toluene diamine (68479-98-1)	
Persistence and degradability	Not rapidly degradable.
Carbon black (1333-86-4)	
Persistence and degradability	Not rapidly degradable

Universal No-Tape 304-12T

Safety Data Sheet

according to Circular 17/2022/TT-BCT

12.3. Bioaccumulative potential

Universal No-Tape 304-12T

Partition coefficient n-octanol/water (Log Pow)	Not applicable.
Bioaccumulative potential	Not established.

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

Partition coefficient n-octanol/water (Log Pow)	0.9 – 1.9
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Diethylene glycol (111-46-6)

Partition coefficient n-octanol/water (Log Pow)	-1.47
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Ethylene Glycol (107-21-1)

Bioaccumulative potential	Does not bioaccumulate.
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Diethyl toluene diamine (68479-98-1)

Partition coefficient n-octanol/water (Log Pow)	1.38
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.12

12.4. Mobility in soil

Universal No-Tape 304-12T

Mobility in soil	No additional information available
Partition coefficient n-octanol/water (Log Pow)	Not applicable.

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

Partition coefficient n-octanol/water (Log Pow)	0.9 – 1.9
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Diethylene glycol (111-46-6)

Partition coefficient n-octanol/water (Log Pow)	-1.47
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Diethyl toluene diamine (68479-98-1)

Partition coefficient n-octanol/water (Log Pow)	1.38
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.12

12.5. Other adverse effects

Other adverse effects : No additional information available

SECTION 13: Disposal considerations

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.
Ecological waste information	: Avoid release to the environment.
Additional information	: Do not re-use empty containers.




SECTION 14: Transport information

In accordance with IMDG / IATA / UN RTDG

Universal No-Tape 304-12T

Safety Data Sheet

according to Circular 17/2022/TT-BCT

IMDG	IATA	UN RTDG
14.1 UN number		
3082	3082	3082
14.2 Proper Shipping Name		
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)
Transport document description		
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diethyl toluene diamine), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Diethyl toluene diamine), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diethyl toluene diamine), 9, III
14.3 Transport hazard class(es)		
9	9	9
		
14.4 Packing group		
III	III	III
14.5 Environmental hazards		
Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available		

14.6. Transport in bulk

Not applicable

14.7. Special precautions for users which need to be complied in transport

UN RTDG

UN-No.(UN RTDG) : 3082
Special provisions (UN RTDG) : 274, 331, 335, 375
Limited quantities (UN RTDG) : 5L
Excepted quantities (UN RTDG) : E1
Packing instruction (UN RTDG) : P001, IBC03, LP01
Special packing provisions (UN RTDG) : PP1
Portable tank and bulk container special instructions (UN RTDG) : T4
Portable tank and bulk container special provisions (UN RTDG) : TP1, TP29

IMDG

UN-No. (IMDG) : 3082
Special provisions (IMDG) : 274, 335, 969
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP01, P001
Special 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

Universal No-Tape 304-12T

Safety Data Sheet

according to Circular 17/2022/TT-BCT

IATA

UN-No. (IATA)	: 3082
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
ERG code (IATA)	: 9L

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations for the product

Law on Chemicals

Vietnam Annex I: List of chemicals subject to conditional production or import	Contains listed substance(s)	Universal No-Tape 304-12T
Vietnam Annex II: List of chemicals restricted from production or trade	No information available	
Vietnam Annex III: List of banned chemicals	No information available	
Vietnam Annex IV: List of hazardous chemicals for which chemical incident prevention and response plans are required	Contains listed substance(s)	Universal No-Tape 304-12T
Vietnam Annex V: List of chemicals subject to compulsory declarations	Contains listed substance(s)	Universal No-Tape 304-12T

National Chemical Inventory (NCI)

National Chemical Inventory (NCI)	Contains listed substance(s)	Poly[oxy(methyl-1,2-ethanediyl)], alpha,alpha',alpha''-1,2,3- propanetriyltris[omega-hydroxy- (25791- 96-2) 1,3-Isobenzofurandione, polymer with 2,2'-oxybis[ethanol] (32472-85-8) Ethanol, 2,2'-oxybis- (111-46-6) Ethylene glycol (107-21-1) ar,ar-Diethyl-ar-methylphenylenediamine (68479-98-1) Carbon black (1333-86-4)
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15.2. International regulations

No additional information available

SECTION 16: Other information

Data sources	: SDS prepared by CHEMTREC
Company	: Azon USA Inc.
Version	: 1.0
Issue date	: 5/7/2025

Abbreviations and acronyms	: 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
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Universal No-Tape 304-12T

Safety Data Sheet

according to Circular 17/2022/TT-BCT

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
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

Full text of H-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Acute Tox. 5 (Dermal)	Acute toxicity (dermal), Category 5
Acute Tox. 5 (Oral)	Acute toxicity (oral), Category 5
Acute Tox. Not classified (Dermal)	Acute toxicity (dermal) Not classified
Acute Tox. Not classified (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Not classified
Acute Tox. Not classified (Oral)	Acute toxicity (oral) Not classified
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Acute Not classified	Hazardous to the aquatic environment – Acute Hazard Not classified
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Aquatic Chronic Not classified	Hazardous to the aquatic environment – Chronic Hazard Not classified
Carc. 2	Carcinogenicity, Category 2
Eye Dam./Irrit. Not classified	Serious eye damage/eye irritation Not classified
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation, Category 2B
Flam. Liq. Not classified	Flammable liquids Not classified

Universal No-Tape 304-12T

Safety Data Sheet

according to Circular 17/2022/TT-BCT

Full text of H-statements:	
Pyr. Liq. Not classified	Pyrophoric liquids Not classified
Pyr. Sol. Not classified	Pyrophoric solids Not classified
Repr. Not classified	Reproductive toxicity Not classified
Self-heat. Not classified	Self-heating substances and mixtures Not classified
Skin Corr./Irrit. Not classified	Skin corrosion/irritation Not classified
Skin Sens. Not classified	Skin sensitisation Not classified
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT RE Not classified	Specific target organ toxicity (repeated exposure) Not classified
STOT SE Not classified	Specific target organ toxicity (single exposure) Not classified
H302	Harmful if swallowed
H303	May be harmful if swallowed
H312	Harmful in contact with skin
H313	May be harmful in contact with skin
H319	Causes serious eye irritation
H320	Causes eye irritation
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

Safety Data Sheet (SDS), Vietnam

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.