

Azon | Azo-Cap 180 Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 3/20/2024 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

: Azon | Azo-Cap 180 Trade name

1.2. Recommended use and restrictions on use

Recommended use : Electrical potting/encapsulation 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

Carcinogenicity Category 2 Suspected of causing cancer

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) Suspected of causing cancer

Precautionary statements (GHS US) : Obtain special instructions before use.

> Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.

If exposed or concerned: Get medical advice/attention.

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

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2.4. Unknown acute toxicity (GHS US)

No additional information available

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 – 12	Aquatic Chronic 3, H412
Tris(2-chloro-1-methylethyl) phosphate	CAS-No.: 13674-84-5	6 – 10	Acute Tox. 4 (Oral), H302 Aquatic Chronic 3, H412
Diethylene glycol	CAS-No.: 111-46-6	1 – 3	Acute Tox. 4 (Oral), H302 Eye Irrit. 2B, H320
Carbon black	CAS-No.: 1333-86-4	0.1 – 0.25	Carc. 2, H351 STOT RE 1, H372

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 after inhalation

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.

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for

breathing. Get medical advice/attention if you feel unwell.

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. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth out with water. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Call a poison center/doctor/physician if you feel

unwell.

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

Symptoms/effects after skin contact : Repeated or prolonged contact may cause slight irritation to the skin.

Symptoms/effects after eye contact : May cause eye irritation.

Symptoms/effects after ingestion : Ingestion may cause nausea and vomiting.

Chronic symptoms : Suspected of causing cancer.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Dry chemical, CO2, dry sand, or alcohol-resistant foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : No fire hazard.

Hazardous decomposition products in case of fire : Carbon dioxide. Toxic fumes may be released. Carbon monoxide. Nitrous oxide.

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. Use water spray or fog for cooling

exposed containers. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid all personal contact including breathing in the mist, spray, vapors. 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, remove ignition sources, ventilate area. Prevent other non-

emergency personnel from entering the danger area.

6.1.2. For emergency responders

Protective equipment : Wear the recommended personal protective equipment. Do not attempt to take action without

suitable protective equipment. For further information refer to section 8: "Exposure

controls/personal protection".

Emergency procedures : Evacuate personnel to a safe area. Ventilate spillage area. Stop leak if safe to do so.

6.2. Environmental precautions

Do not let the product reach soil, drains, sewers, or surface and ground water.

6.3. Methods and material for containment and cleaning up

For containment : Contain with non-combustible inert absorbent.

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. Until a sufficient level of dilution is achieved, the

decontamination water may pose the same hazards as the product. 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.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

: Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling

: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing mist, spray, vapors, gas. Take

precautionary measures against static discharge.

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

Storage conditions : Store in a cool, dry and well-ventilated area away from incompatible substances. Protect from

sunlight. Keep container closed when not in use.

Incompatible materials : Strong acids, strong bases and strong oxidants.

Packaging materials : Store always product in container of same material as original container.

Carbon black

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Azon | Azo-Cap 180

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

Carbon black (1333-86-4)

Local name

USA - ACGIH - Occupational Exposure Limits

	Cara and an analysis
ACGIH OEL TWA	3 mg/m³ (I - Inhalable particulate matter)
` '	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/m³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

Tris(2-chloro-1-methylethyl) phosphate (13674-84-5)

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls

: Ensure good ventilation of the work station. Use general ventilation, local exhaust ventilation or process enclosure to keep the airborne concentrations below the permissible exposure limits.

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Environmental exposure controls

: Avoid release to the environment. 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:

Wear protective gloves

Eye protection:

Wear safety glasses which protect from splashes

Skin and body protection:

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

Respiratory protection:

Use NIOSH approved respirator if ventilation is inadequate. SCBA for emergency responders. Must be used in accordance with an OSHA complaint respiratory protection program.

Personal protective equipment symbol(s):



Odor

Viscosity, kinematic Viscosity, dynamic

Explosive properties

Oxidizing properties

Explosion limits







SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid. Appearance : Liquid. Color Black

No data available Odor threshold No data available рΗ No data available Melting point Not applicable No data available Freezing point : No data available Boiling point Flash point : No data available Relative evaporation rate (butyl acetate=1) No data available Flammability (solid, gas) Not applicable. Vapor pressure No data available No data available Relative vapor density at 20°C 1.25 25 °C Relative density Solubility No data available Partition coefficient n-octanol/water (Log Pow) No data available Auto-ignition temperature No data available No data available Decomposition temperature

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: No data available

: 1730 cP (25 °C)

: No data available

No data available

No data available

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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

None under recommended storage and handling conditions (see section 7). Incompatible materials.

10.5. Incompatible materials

Oxidizing agents. Strong acids. Strong bases.

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 dioxide. Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Diethylene Glycol-phthalic Anhydride Polymer

 Diethylene glycol

 LD50 oral rat
 12000 mg/kg

 LD50 dermal rabbit
 11890 mg/kg

> 2000 mg/kg

Carbon black

LD50 dermal rat

LD50 oral rat	> 8000 mg/kg body weight
LD50 dermal rabbit	> 2000 mg/kg body weight

Tris(2-chloro-1-methylethyl) phosphate

LD50 oral rat	930 – 1550 mg/kg body weight
LD50 dermal rabbit	> 2000 mg/kg body weight
LC50 Inhalation - Rat	> 7 mg/l/4h

Skin corrosion/irritation : Not classified

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	· ·
Carbon black	
Skin corrosion/irritation, rabbit	Not irritating
Tris(2-chloro-1-methylethyl) phosphate	
Additional information	Not irritating to rabbits on cutaneous application
Serious eye damage/irritation	: Not classified
Diethylene glycol	
Serious eye damage/irritation, rabbit	Slightly irritating
Carbon black	
Serious eye damage/irritation, rabbit	Not irritating
Tris(2-chloro-1-methylethyl) phosphate	
Additional information	Not irritating to rabbits on ocular application
Respiratory or skin sensitization	: Not classified
Carbon black	
Local Lymph Node Assay	Not sensitive
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Diethylene glycol	
NOAEL (chronic,oral,animal/male,2 years)	1210 mg/kg body weight
NOAEL (chronic,oral,animal/female,2 years)	1160 mg/kg body weight
Carbon black	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Not classified
Tris(2-chloro-1-methylethyl) phosphate	
LOAEL (animal/female, F0/P)	99 mg/kg body weight
NOAEL (animal/male, F0/P)	85 mg/kg body weight
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Diethylene glycol	
LOAEL (oral,rat,90 days)	40000 mg/kg body weight
Carbon black	
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.
Aspiration hazard	: Not classified
Viscosity, kinematic Symptoms/effects after skin contact	No data availableRepeated or prolonged contact may cause slight irritation to the skin.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: Ingestion may cause nausea and vomiting.

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Chronic symptoms : Suspected of causing cancer.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Diethylene Glycol-phthalic Anhydride Polymer			
LC50 - Fish [1]	≥ 100 mg/l		
ErC50 algae	157.4 mg/l		
Diethylene glycol	Diethylene glycol		
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		
Carbon black			
EC50 - Crustacea [1]	> 1000 mg/l		
EC50 72h - Algae [1]	> 10000 mg/l		
EC50 72h - Algae [2]	> 10000 mg/l		
Tris(2-chloro-1-methylethyl) phosphate			
LC50 - Fish [1]	51 mg/l		
EC50 - Crustacea [1]	131 mg/l		
EC50 72h - Algae [1]	82 mg/l		
EC50 72h - Algae [2]	33 mg/l		
NOEC (chronic)	32 mg/l		
NOEC chronic fish	5.2 mg/l		

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Diethylene Glycol-phthalic Anhydride Polymer	
Partition coefficient n-octanol/water (Log Pow)	0.9 – 1.9
Diethylene glycol	
Partition coefficient n-octanol/water (Log Pow)	-1.47

12.4. Mobility in soil

No additional information available

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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. Disposal must be done according to official regulations.

Sewage disposal recommendations

Product/Packaging disposal recommendations

Disposal must be done according to official regulations. 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 **Ecological information**

Do not re-use empty containers. : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
14.1. UN number		
Not regulated for transport		
14.2. Proper Shipping Name		
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
Not regulated	Not regulated	Not regulated
No supplementary information available		

14.6. Special precautions for user

DOT

Not regulated

IMDG

Not regulated

IATA

Not regulated

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

Not applicable

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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

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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)

Carbon black (1333-86-4)

Listed on the Canadian DSL (Domestic Substances List)

Tris(2-chloro-1-methylethyl) phosphate (13674-84-5)

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)

Carbon black (1333-86-4)

Listed on IARC (International Agency for Research on Cancer)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Tris(2-chloro-1-methylethyl) phosphate (13674-84-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations



This product can expose you to Aniline, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

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Data sources : SDS prepared by DGF based on prior CHEMTREC edition.

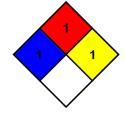
Full text of H-phrases		
H302	Harmful if swallowed	
H320	Causes eye irritation	
H351	Suspected of causing cancer	
H372	Causes damage to organs through prolonged or repeated exposure	
H412	Harmful to aquatic life with long lasting effects	

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur. NFPA reactivity

: 1 - Materials that in themselves are normally stable but can become

unstable at elevated temperatures and pressures.



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.