

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS) Issue date: 5/12/2025 Supersedes: 5/12/2025 Version: 1.0

#### **SECTION 1 Identification**

#### 1.1. Product identifier

Product form : Mixture

Product name : CRACKBOND® 2300 GEL Part A

Product code : AT

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

No additional information available

#### 1.4. Supplier's details

www.atcepoxy.com

Adhesives Technology Corporation 450 East Copans Road Pompano Beach, Florida 33064 USA T (800) 892-1880 - F (800) 362-3320

# 1.5. Emergency phone number

Emergency number : 800-255-3924

Operating hours 24 hours / 24 hours, 7 days a week

## **SECTION 2 Hazard Identification**

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

#### **GHS US classification**

Skin corrosion/irritation, Category 2
H315
Causes skin irritation.
Serious eye damage/eye irritation, Category 2
H319
Causes serious eye irritation.
Skin sensitization, Category 1
H317
May cause an allergic skin reaction.
Carcinogenicity, Category 2
H351
Suspected of causing cancer.

Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411 Toxic to aquatic life with long lasting effects.

Full text of H statements : see section 16

Precautionary statements (GHS US)

#### 2.2. Label elements

#### **GHS US labeling**

Hazard pictograms (GHS US)







Signal word (GHS US) : Warning

Hazard statements (GHS US) : H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H351 - Suspected of causing cancer.

H411 - Toxic to aquatic life with long lasting effects : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

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P261 - Avoid breathing dust, fume, gas, mist, vapors, spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P272 - Contaminated work clothing must not be allowed out of the workplace.

P273 - Avoid release to the environment.

P280 - Wear protective gloves.

P302+P352 - If on skin: Wash with plenty of water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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

P308+P313 - If exposed or concerned: Get medical advice/attention.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.

P337+P313 - If eye irritation persists: Get medical advice or attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

P391 - Collect spillage.

P405 - Store locked up.

P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

#### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

#### 2.4. Hazards not otherwise classified

No additional information available

## 2.5. Unknown acute toxicity

No additional information available

#### **SECTION 3 Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Bisphenol A diglycidyl ether resin	CAS-No.: 25085-99-8	≥ 60	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Titanium oxide (TiO2)	CAS-No.: 13463-67-7	1 – 5	Carc. 2, H351

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

## **SECTION 4 First aid measures**

# 4.1. Description of necessary first-aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs:

Get medical advice/attention.

First-aid measures after eye contact : 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 : Call a poison center/doctor/physician if you feel unwell.

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## 4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : None under normal conditions.

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eve contact : Eye irritation.

Symptoms/effects after ingestion : None under normal conditions.

## 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Treat symptomatically.

# **SECTION 5: Fire-fighting measures**

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

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

#### 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.

#### 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. Self-contained breathing

apparatus. Complete protective clothing.

#### **SECTION 6 Accidental release measures**

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

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb

spillage to prevent material-damage.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing

dust/fume/gas/mist/vapors/spray.

For emergency responders

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 unnecessary personnel. Stop leak if safe to do so.

Environmental precautions : Avoid release to the environment.

#### 6.2. Methods and materials for containment and cleaning up

For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into

sewers or streams. Stop leak, if possible without risk.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public

waters.

Other information : Dispose of materials or solid residues at an authorized site.

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For further information refer to section 13

## **SECTION 7 Handling and storage**

#### 7.1. Precautions for safe handling

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 and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

Hygiene measures

: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed

out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands

after handling the product.

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

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

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Store locked up.

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

## **SECTION 8 Exposure controls/personal protection**

## 8.1. Control parameters

Titanium oxide (TiO2) (13463-67-7)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Titanium dioxide (*not respirable as contained in this liquid mixture)	
ACGIH OEL TWA	0.2 mg/m³ (Respirable fraction) 2.5 mg/m³ (Respirable fraction)	
Remark (ACGIH)	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)	
Regulatory reference	ACGIH 2024	
USA - OSHA - Occupational Exposure Limits		
Local name	Titanium dioxide (*not respirable as contained in this liquid mixture)	

## 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures, such as personal protective equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

land protection:
Protective gloves
ye protection:
afety glasses
kin and body protection:
Vear suitable protective clothing

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#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### Personal protective equipment symbol(s):







## **SECTION 9 Physical and chemical properties**

#### 9.1. Basic physical and chemical properties

Physical state : Liquid Color : white

Odor : There may be no odor warning properties, odor is subjective and inadequate to warn of

overexposure.

: No data available

: No data available

Mixture contains one or more component(s) which have the following odor:

Odourless

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

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

## **SECTION 10 Stability and reactivity**

#### 10.1. Reactivity

Explosion limits

Particle characteristics

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

## 10.2. Chemical stability

Stable under normal conditions.

#### 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).

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## 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11 Toxicological information**

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

Titanium oxide (TiO2) (13463-67-7)			
LD50 oral rat	> 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))		
LD50 oral	5000 mg/kg		
LC50 Inhalation - Rat	5.09 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s))		
LC50 Inhalation - Rat (Dust/Mist)	> 6.82 mg/l Source: ECHA		
ATE US (oral)	5000 mg/kg body weight		
ATE US (vapors)	5.09 mg/l/4h		
ATE US (dust, mist)	5.09 mg/l/4h		

Skin corrosion/irritation : Causes skin irritation.

				110101	
Litani	ium oxi	de l	コルつつい	11346	3-67-71

pH 7 (aqueous suspension, 10 %)

Serious eye damage/irritation : Causes serious eye irritation.

Titanium oxide (TiO2) (13463-67-7)	
рН	7 (aqueous suspension, 10 %)

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

Titanium oxide (TiO2) (13463-67-7)		
Additional information	*Not a respirable hazard as contained in this liquid mixture	
IARC group	2B - Possibly carcinogenic to humans	

Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified

<b>Titanium oxide</b>	(TiO2)	(13463-67-7)
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Viscosity, kinematic Not applicable (solid)

Symptoms/effects after inhalation : None under normal conditions.

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Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

Symptoms/effects after ingestion : None under normal conditions.

# **SECTION 12 Ecological information**

## 12.1. Ecotoxicity

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

Hazardous to the aquatic environment, short-term

: Not classified

(acute)

Hazardous to the aquatic environment, long-term

: Toxic to aquatic life with long lasting effects.

(chronic)

Titanium oxide (TiO2) (13463-67-7)		
LC50 - Fish [1]	> 1000 mg/l (Pisces, Fresh water, Literature study)	
EC50 - Crustacea [1]	> 1000 mg/l (Invertebrata, Fresh water, Literature study)	
EC50 72h - Algae [1]	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)	

## 12.2. Persistence and degradability

CRACKBOND® 2300 GEL Part A		
Persistence and degradability  Not rapidly degradable		
Bisphenol A diglycidyl ether resin (25085-99-8)		
Persistence and degradability	Not rapidly degradable	
Titanium oxide (TiO2) (13463-67-7)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	

## 12.3. Bioaccumulative potential

Titanium oxide (TiO2) (13463-67-7)	
Bioaccumulative potential	Not bioaccumulative.

## 12.4. Mobility in soil

Titanium oxide (TiO2) (13463-67-7)	
Surface tension	No data available in the literature
Ecology - soil	Low potential for mobility in soil.

## 12.5. Other adverse effects

Ozone : Not classified

Fluorinated greenhouse gases : No

## **SECTION 13 Disposal considerations**

Regional waste regulation : Disposal must be done according to official regulations.

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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

: Disposal must be done according to official regulations.

Additional information

: Do not re-use empty containers.

# **SECTION 14 Transport information**

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA		
14.1. UN number					
UN3077	UN3077	3077	3077		
14.2. Proper Shipping Name					
Environmentally hazardous substances, solid, n.o.s. (Bisphenol A diglycidyl ether resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Bisphenol A diglycidyl ether resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Bisphenol A diglycidyl ether resin)	Environmentally hazardous substance, solid, n.o.s. (Bisphenol A diglycidyl ether resin)		
14.3. Transport hazard class(es	5)				
9	9	9	9		
<b>1 1 1 2 2 2 3 3 3 3 3 3 3 3 3 3</b>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	**************************************			
14.4. Packing group	14.4. Packing group				
III	III	III	III		
14.5. Environmental hazards					
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	ple				

## 14.6. Transport in bulk

Not applicable

## 14.7. Special precautions for user

DOT

UN-No. (DOT) : UN3077

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DOT Special Provisions (49 CFR 172.102)

- : 8 A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.
  - 146 This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination.
  - 335 Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging.
  - 384 For transportation by motor vehicle, substances meeting the conditions for high viscosity flammable liquids as prescribed in §173.121(b)(1)(i), (b)(1)(ii), and (b)(1)(iv) of this subchapter, may be reassigned to Packing Group III under the following conditions:
  - A112 Notwithstanding the quantity limits shown in Column (9A) and (9B) for this entry, the following IBCs are authorized for transportation aboard passenger and cargo-only aircraft. Each IBC may not exceed a maximum net quantity of 1,000 kg:
  - a. Metal: 11A, 11B, 11N, 21A, 21B and 21N
  - b. Rigid plastics: 11H1, 11H2, 21H1 and 21H2
  - c. Composite with plastic inner receptacle: 11HZ1, 11HZ2, 21HZ1 and 21HZ2
  - d. Fiberboard: 11G
  - e. Wooden: 11C, 11D and 11F (with inner liners)
  - f. Flexible: 13H2, 13H3, 13H4, 13H5, 13L2, 13L3, 13L4, 13M1 and 13M2 (flexible IBCs must be sift-proof and water resistant or must be fitted with a sift-proof and water resistant liner).
  - B54 Open-top, sift-proof rail cars are also authorized.
  - B120 The use of flexible bulk containers conforming to the requirements in subpart R and subpart S of part 178 of this subchapter is permitted.
  - IB8 Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).
  - IP3 Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.
  - N20 A 5M1 multi-wall paper bag is authorized if transported in a closed transport vehicle.
  - N91 The use of a non specification sift-proof, non-bulk, metal can with or without lid, or a non specification sift-proof, non-bulk fiber drum, with or without lid is authorized when transporting coal tar pitch compounds by motor vehicle or rail freight. The fiber drum must to be fabricated with a three ply wall, as a minimum. The coal tar pitch compound must be in a solid mass during transportation.
  - T1 1.5 178.274(d)(2) Normal...... 178.275(d)(2)

TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : 155
DOT Packaging Non Bulk (49 CFR 173.xxx) : 213
DOT Packaging Bulk (49 CFR 173.xxx) : 240
DOT Quantity Limitations Passenger aircraft/rail (49 : No Limit

CFR 173.27)

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**DOT Vessel Stowage Location** 

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

DOT Quantity Limitations Cargo aircraft only (49

CFR 175.75)

: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

: No I imit

**TDG** 

UN-No. (TDG) : UN3077

TDG Special Provisions

: 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the danger or dangers 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). 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).

(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 offered for transport, handled or transported as UN3077 if there is no visible liquid when the dangerous goods are loaded into a means of containment and during transport.
- (2) These Regulations, except for Parts 1 and 2, do not apply to the offering for transport, handling or transport 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 release of the dangerous goods that could endanger public safety.

Explosive Limit and Limited Quantity Index Excepted quantities (TDG)

Excepted quantities (TDG) : E1
Emergency Response Guide (ERG) Number : 171

**IMDG** 

Special provision (IMDG) : 274, 335, 375, 966, 967, 969

Limited quantities (IMDG) : 5 kg

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : LP02, P002

Packing provisions (IMDG) : PP12

IBC packing instructions (IMDG) : IBC08

IBC special provisions (IMDG) : B3

Tank instructions (IMDG) : BK1, BK2, BK3, T1

Tank special provisions (IMDG) : TP33

EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE

: 5 kg

EmS-No. (Spillage) : S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS

Stowage category (IMDG) : A
Stowage and handling (IMDG) : SW23

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#### IATA

Special provision (IATA) : A97, A158, A179, A197, A215

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y956 PCA limited quantity max net quantity (IATA) : 30kgG PCA packing instructions (IATA) : 956 PCA max net quantity (IATA) : 400kg CAO packing instructions (IATA) : 956 CAO max net quantity (IATA) : 400kg ERG code (IATA) : 9L

### **SECTION 15 Regulatory information**

## 15.1. 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

#### 15.2. International regulations

#### **CANADA**

## Bisphenol A diglycidyl ether resin (25085-99-8)

Listed on the Canadian DSL (Domestic Substances List)

#### Titanium oxide (TiO2) (13463-67-7)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### **National regulations**

## Bisphenol A diglycidyl ether resin (25085-99-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### Titanium oxide (TiO2) (13463-67-7)

Listed on IARC (International Agency for Research on Cancer)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

## 15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Titanium oxide (TiO2)(13463-67-7)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

## **SECTION 16 Other information**

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

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Full text of hazard classes and H-statements	
H315 Causes skin irritation	
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H351 Suspected of causing cancer.	
H411	Toxic to aquatic life with long lasting effects

Safety Data Sheet (SDS), USA

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.



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## **SECTION 1 Identification**

#### 1.1. Product identifier

Product form : Mixture

Product name : CRACKBOND® 2300 GEL Part B

Product code : AT

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

No additional information available

#### 1.4. Supplier's details

Adhesives Technology Corporation 450 East Copans Road Pompano Beach, Florida 33064 USA T (800) 892-1880 - F (800) 362-3320 www.atcepoxy.com

# 1.5. Emergency phone number

Emergency number : 800-255-3924

Operating hours 24 hours / 24 hours, 7 days a week

## **SECTION 2 Hazard Identification**

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

#### **GHS US classification**

Acute toxicity (oral), Category 4	H302	Harmful if swallowed.
Acute toxicity (inhalation:dust,mist), Category 4	H332	Harmful if inhaled.
Skin corrosion/irritation, Category 1A	H314	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation, Category 1	H318	Causes serious eye damage.
Skin sensitization, Category 1	H317	May cause an allergic skin reaction.
Reproductive toxicity, Category 1B	H360	May damage fertility or the unborn child.
Specific target organ toxicity – Single exposure, Category 3,	H335	May cause respiratory irritation.
Respiratory tract irritation		
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410	Very toxic to aquatic life with long lasting effects.

## 2.2. Label elements

#### **GHS US labeling**

Hazard pictograms (GHS US)

Full text of H statements : see section 16









Signal word (GHS US) : Danger

Hazard statements (GHS US) : H302+H332 - Harmful if swallowed or if inhaled H314 - Causes severe skin burns and eye damage

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Precautionary statements (GHS US)

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

H317 - May cause an allergic skin reaction

H335 - May cause respiratory irritation

H360 - May damage fertility or the unborn child

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dusts or mists.

P264 - Wash hands, forearms and face thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing must not be allowed out of the workplace.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.

P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.

P302+P352 - If on skin: Wash with plenty of water.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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

P308+P313 - If exposed or concerned: Get medical advice/attention.

P310 - Immediately call a poison center or doctor.

P312 - Call a poison center or doctor if you feel unwell.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P330 - Rinse mouth.

P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P363 - Take off immediately all contaminated clothing and wash it before reuse.

P391 - Collect spillage.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

#### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

## 2.4. Hazards not otherwise classified

No additional information available

#### 2.5. Unknown acute toxicity

No additional information available

## **SECTION 3 Composition/information on ingredients**

#### 3.1. Substances

Not applicable

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according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

## 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Phenol, 4-nonyl-, branched	CAS-No.: 84852-15-3	10 – 30	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	CAS-No.: 68953-36-6	10 – 30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335
Tetraethylenepentamine	CAS-No.: 112-57-2	< 10	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Diethylenetriamine	CAS-No.: 111-40-0	< 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335
Cyclic Ethyleneamine	CAS-No.: 140-31-8	< 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Phenol, 2-nonyl-, branched	CAS-No.: 91672-41-2	< 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Phenol, 4,4'-(1-methylethylidene)bis-	CAS-No.: 80-05-7	< 5	Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360 STOT SE 3, H335 Aquatic Chronic 2, H411

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

## **SECTION 4 First aid measures**

## 4.1. Description of necessary first-aid measures

First-aid measures general

: Call a physician immediately.

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. Call a poison

center/doctor/physician if you feel unwell.

First-aid measures after skin contact

: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.

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First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

#### 4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : Harmful if inhaled. May cause respiratory irritation.

Symptoms/effects after skin contact : Burns. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes. Symptoms/effects after ingestion : Harmful if swallowed. Burns.

Chronic symptoms : May damage fertility or the unborn child.

## 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Treat symptomatically.

#### **SECTION 5: Fire-fighting measures**

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

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

#### 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.

#### 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. Self-contained breathing

apparatus. Complete protective clothing.

## **SECTION 6 Accidental release measures**

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

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb

spillage to prevent material-damage.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. Do not

breathe dust/fume/gas/mist/vapors/spray.

For emergency responders

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 unnecessary personnel. Stop leak if safe to do so.

Environmental precautions : Avoid release to the environment. Notify authorities if product enters sewers or public waters.

#### 6.2. Methods and materials for containment and cleaning up

For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into

sewers or streams. Stop leak, if possible without risk.

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Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public

waters.

Other information : Dispose of materials or solid residues at an authorized site.

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. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray.

Hygiene measures : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing

before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

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

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed.

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

## **SECTION 8 Exposure controls/personal protection**

## 8.1. Control parameters

Diethylenetriamine (111-40-0)		
USA - ACGIH - Occupational Exposure Limits		
Local name Diethylenetriamine		
ACGIH OEL TWA 1 ppm		
Remark (ACGIH)	TLV® Basis: URT & eye irr. Notations: Skin	
Regulatory reference	ACGIH 2024	

## 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

## 8.3. Individual protection measures, such as personal protective equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:		
Protective gloves		
Eye protection:		

# Skin and body protection:

Safety glasses

Wear suitable protective clothing

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#### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

#### Personal protective equipment symbol(s):







## **SECTION 9 Physical and chemical properties**

#### 9.1. Basic physical and chemical properties

Physical state : Liquid Color : Gray

Odor : There may be no odor warning properties, odor is subjective and inadequate to warn of

overexposure.

Mixture contains one or more component(s) which have the following odor:

Mild odour Phenol odour Odourless Ammonia odour Irritating/pungent odour Smell of fish

Odor threshold No data available : No data available рΗ Melting point : Not applicable Freezing point : No data available : No data available Boiling point Flash point No data available Flammability (solid, gas) Not applicable. Vapor pressure No data available Relative vapor density at 20°C : No data available Relative density : No data available : No data available Solubility Partition coefficient n-octanol/water (Log Pow) : No data available

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity, kinematic : No data available
Explosion limits : No data available

Particle characteristics : No data available : No data available

#### 9.2. Data relevant with regard to physical hazard classes (supplemental)

VOC content : 11 g/l EPA CFR40, Part 60, Method 24

# **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.

#### 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).

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## 10.5. Incompatible materials

No additional information available

## 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11 Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) Inhalation dust mist: Harmful if inhaled

Acute toxicity (inhalation) :	Inhalation:dust,mist: Harmful if inhaled.		
CRACKBOND® 2300 GEL Part B			
ATE US (oral)	1540.309 mg/kg body weight		
ATE US (dust, mist)	1.667 mg/l/4h		
Phenol, 4-nonyl-, branched (84852-15-3)			
LD50 oral rat	1412 mg/kg body weight (Rat, Male / female, Experimental value, Oral, 14 day(s))		
LD50 oral	580 mg/kg		
LD50 dermal rabbit	3160 mg/kg Source: ChemIDPlus		
LD50 dermal	2037 mg/kg		
ATE US (oral)	580 mg/kg body weight		
ATE US (dermal)	2037 mg/kg body weight		
Tetraethylenepentamine (112-57-2)			
LD50 oral rat	3990 mg/kg		
LD50 oral	2100 mg/kg		
LD50 dermal rabbit	660 mg/kg		
LD50 dermal	660 mg/kg		
LC50 Inhalation - Rat	> 9.9 mg/l air (8 h, Rat, Male, Literature study, Inhalation)		
ATE US (oral)	500 mg/kg body weight		
ATE US (dermal)	660 mg/kg body weight		
Diethylenetriamine (111-40-0)			
LD50 oral rat	1553 mg/kg body weight (Rat, Male, Experimental value, Oral, 14 day(s))		
LD50 oral	1080 mg/kg		
LD50 dermal	1040 mg/kg		
ATE US (oral)	1080 mg/kg body weight		
ATE US (dermal)	1040 mg/kg body weight		
ATE US (gases)	100 ppmV/4h		
ATE US (vapors)	0.5 mg/l/4h		
ATE US (dust, mist)	0.05 mg/l/4h		

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Cyclic Ethyleneamine (140-31-8)			
LD50 oral rat	2097 mg/kg body weight (Rat, Male, Experimental value, Oral, 14 day(s))		
LD50 oral	1470 mg/kg		
LD50 dermal rabbit	866 mg/kg bw/day (24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))		
LD50 dermal	880 mg/kg		
ATE US (oral)	1470 mg/kg body weight		
ATE US (dermal)	866 mg/kg body weight		
Phenol, 2-nonyl-, branched (91672-41-2)			
ATE US (oral)	500 mg/kg body weight		
Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)			
LD50 oral rat	2000 – 5000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))		
LD50 oral	3300 mg/kg		
LD50 dermal rabbit	3000 mg/kg body weight (Rabbit, Experimental value, Dermal)		
LD50 dermal	3000 mg/kg		
ATE US (oral)	2000 mg/kg body weight		
ATE US (dermal)	3000 mg/kg body weight		
Skin corrosion/irritation :	Causes severe skin burns.		
Phenol, 4-nonyl-, branched (84852-15-3)			
рН	No data available in the literature		
Tetraethylenepentamine (112-57-2)			
рН	11.8 (2 %, 20 °C)		
Diethylenetriamine (111-40-0)			
рН	No data available in the literature		
Cyclic Ethyleneamine (140-31-8)			
рН	11.5		
Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)			
pH	No data available in the literature		
Serious eye damage/irritation :	Causes serious eye damage.		
Phenol, 4-nonyl-, branched (84852-15-3)			
рН	No data available in the literature		
Tetraethylenepentamine (112-57-2)			
рН	11.8 (2 %, 20 °C)		
Diethylenetriamine (111-40-0)			
рН	No data available in the literature		
Cyclic Ethyleneamine (140-31-8)			
pH	11.5		

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Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)			
рН	No data available in the literature		
•	May cause an allergic skin reaction.  Not classified		
Carcinogenicity :	Not classified		
Reproductive toxicity :	May damage fertility or the unborn child.		
Phenol, 4-nonyl-, branched (84852-15-3)			
NOAEL (animal/female, F0/P)	15 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study), Remarks on results: other:Generation: All generations tested: F0, F1, F2, F3 (migrated information)		
NOAEL (animal/male, F1)	15 mg/kg body weight Animal: rat, Animal sex: male, Guideline: other:EPA OPPTS 837.3800 (US EPA OPPTS 1998)		
STOT-single exposure :	May cause respiratory irritation.		
Fatty acids, tall-oil, reaction products with tet	raethylenepentamine (68953-36-6)		
STOT-single exposure	May cause respiratory irritation.		
Diethylenetriamine (111-40-0)			
STOT-single exposure	May cause respiratory irritation.		
Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7			
STOT-single exposure	May cause respiratory irritation.		
STOT-repeated exposure :	Not classified		
Phenol, 4-nonyl-, branched (84852-15-3)			
LOAEL (oral,rat,90 days)	400 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)		
NOAEL (oral,rat,90 days)	100 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)		
Diethylenetriamine (111-40-0)			
LOAEL (oral,rat,90 days)	530 – 620 mg/kg body weight Animal: rat, Guideline: other:OECD Guideline for Testing of Chemicals, No. 451, May 12, 1981		
NOAEL (oral,rat,90 days)	70 – 80 mg/kg body weight Animal: rat, Guideline: other:OECD Guideline for Testing of Chemicals, No. 451, May 12, 1981		
Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)			
LOAEL (oral,rat,90 days)	600 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)		
Aspiration hazard :	Not classified		
Phenol, 4-nonyl-, branched (84852-15-3)			
Viscosity, kinematic	No data available in the literature		
Tetraethylenepentamine (112-57-2)	Tetraethylenepentamine (112-57-2)		
Viscosity, kinematic	0.096 mm²/s (20 °C)		
Diethylenetriamine (111-40-0)			
Viscosity, kinematic	No data available in the literature		

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Phenol, 4-nonyl-, branched (84852-15-3)			
Cyclic Ethyleneamine (140-31-8)			
Viscosity, kinematic	No data available in the literature		
Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)			
Viscosity, kinematic	Not applicable (solid)		
Symptoms/effects after inhalation	: Harmful if inhaled. May cause respiratory irritation.		
Symptoms/effects after skin contact	: Burns. May cause an allergic skin reaction.		
Symptoms/effects after eye contact	: Serious damage to eyes.		
Symptoms/effects after ingestion	: Harmful if swallowed. Burns.		
Chronic symptoms	: May damage fertility or the unborn child.		

# **SECTION 12 Ecological information**

# 12.1. Ecotoxicity

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

Hazardous to the aquatic environment, short–term : Very toxic to aquatic life.

(acute)

Hazardous to the aquatic environment, long–term : Very toxic to aquatic life with long lasting effects.

(chronic)

Phenol, 4-nonyl-, branched (84852-15-3)		
EC50 - Crustacea [1]	84 $\mu$ g/l (ASTM E729-88, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, Lethal)	
EC50 96h - Algae [1]	0.027 mg/l (EPA OTS 797.1050, Skeletonema costatum, Static system, Salt water, Experimental value, Cell numbers)	
ErC50 algae	0.027 mg/l	
NOEC chronic fish	0.006 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '91 d'	
Tetraethylenepentamine (112-57-2)		
LC50 - Fish [1]	420 mg/l (EU Method C.1, 96 h, Poecilia reticulata, Semi-static system, Fresh water, Experimental value, GLP)	
EC50 - Crustacea [1]	24 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Experimental value, GLP)	
ErC50 algae	6.8 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Selenastrum capricornutum, Experimental value)	
Diethylenetriamine (111-40-0)		
LC50 - Fish [1]	430 mg/l (EU Method C.1, 96 h, Poecilia reticulata, Semi-static system, Fresh water, Experimental value, GLP)	
EC50 - Crustacea [1]	65 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)	
EC50 - Crustacea [2]	16 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	187 mg/l Source: ECHA	
ErC50 algae	1164 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)	
LOEC (chronic)	11.3 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	5.6 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	

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Diethylenetriamine (111-40-0)		
NOEC chronic fish	> 10 mg/l Test organisms (species): Gasterosteus aculeatus Duration: '28 d'	
NOEC chronic crustacea	5.6 mg/l	
Cyclic Ethyleneamine (140-31-8)		
LC50 - Fish [1]	2190 mg/l (96 h, Pimephales promelas, Static system, Fresh water, Experimental value)	
EC50 - Crustacea [1]	58 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Experimental value, GLP)	
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
ErC50 algae	> 1000 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Fresh water, Experimental value, GLP)	
Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)		
LC50 - Fish [1]	4.6 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)	
EC50 - Crustacea [1]	10.2 mg/l (ASTM E-35.21, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Lethal)	
EC50 96h - Algae [1]	2.73 – 3.1 mg/l (EPA 600/9-78-018, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)	
EC50 96h - Algae [2]	1.4 mg/l Test organisms (species): Skeletonema costatum	
LOEC (chronic)	3.6 mg/l Test organisms (species): other:Rotifer (Brachionus calyciflorus) Duration: '48 h'	
NOEC chronic fish	0.16 mg/l	

# 12.2. Persistence and degradability

CRACKBOND® 2300 GEL Part B		
Persistence and degradability	Not rapidly degradable	
Phenol, 4-nonyl-, branched (84852-15-3)		
Persistence and degradability	Not readily biodegradable in water.	
Fatty acids, tall-oil, reaction products with tetr	raethylenepentamine (68953-36-6)	
Persistence and degradability	Not rapidly degradable	
Tetraethylenepentamine (112-57-2)		
Persistence and degradability	Not readily biodegradable in water.	
Diethylenetriamine (111-40-0)		
Persistence and degradability	Biodegradable in the soil, Readily biodegradable in water.	
Cyclic Ethyleneamine (140-31-8)		
Persistence and degradability Not readily biodegradable in water.		
Chemical oxygen demand (COD)	0.56 g O <sub>2</sub> /g substance	
Phenol, 2-nonyl-, branched (91672-41-2)		
Persistence and degradability	Not rapidly degradable	

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Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)	
Persistence and degradability Readily biodegradable in the soil, Readily biodegradable in water.	
Chemical oxygen demand (COD) 0.036 g O <sub>2</sub> /g substance	
ThOD	2.5 g O <sub>2</sub> /g substance

# 12.3. Bioaccumulative potential

12.0. Bloadcumulative potential		
Phenol, 4-nonyl-, branched (84852-15-3)		
BCF - Fish [1]	1200 – 1300 (Equivalent or similar to OECD 305, 16 day(s), Gasterosteus aculeatus, Flow-through system, Salt water, Experimental value, Fresh weight)	
Partition coefficient n-octanol/water (Log Pow)	5.4 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 23 °C)	
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).	
Tetraethylenepentamine (112-57-2)		
BCF - Other aquatic organisms [1]	3.2 l/kg (BCFBAF v3.01, Estimated value, Fresh weight)	
Partition coefficient n-octanol/water (Log Pow)	1.5 (Literature study)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
Diethylenetriamine (111-40-0)		
BCF - Fish [1]	0.3 – 6.3 (OECD 305: Bioconcentration: Flow-Through Fish Test, 6 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value, Fresh weight)	
Partition coefficient n-octanol/water (Log Pow)	-1.6 (Estimated value, 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
Cyclic Ethyleneamine (140-31-8)		
BCF - Fish [1]	0.3 – 6.3 (OECD 305: Bioconcentration: Flow-Through Fish Test, 6 week(s), Cyprinus carpio, Flow-through system, Fresh water, Read-across)	
Partition coefficient n-octanol/water (Log Pow)	-1.48 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)		
BCF - Fish [1]	5.1 – 67 (42 day(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value, Fresh weight)	
Partition coefficient n-octanol/water (Log Pow)	3.4 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 21.5 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	

# 12.4. Mobility in soil

Phenol, 4-nonyl-, branched (84852-15-3)	
Surface tension 38.9 mN/m (20 °C, EU Method A.5: Surface tension)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)  4 (log Koc, Calculated value)	
Ecology - soil	Low potential for mobility in soil.

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Fatty acids, tall-oil, reaction products with tetraethylenepentamine (68953-36-6)		
Mobility in soil	1555 Source: EPISUITE	
Tetraethylenepentamine (112-57-2)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.2 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Low potential for adsorption in soil.	
Diethylenetriamine (111-40-0)		
Surface tension	No data available in the literature	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.4-4.6 (log Koc, EPA OTS 796.2750: Sediment and Soil Adsorption Isotherm, Experimental value, GLP)	
Ecology - soil	Low potential for mobility in soil. Soil contaminant.	
Cyclic Ethyleneamine (140-31-8)		
Surface tension	No data available in the literature	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.57 (log Koc, Read-across, GLP)	
Ecology - soil	Low potential for mobility in soil.	
Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)		
Surface tension	No data available (test not performed)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.8 – 2.97 (log Koc, OECD 106: Adsorption/Desorption Using a Batch Equilibrium Method, Experimental value, GLP)	
Ecology - soil	Low potential for adsorption in soil.	

## 12.5. Other adverse effects

Ozone : Not classified

Fluorinated greenhouse gases : No

# **SECTION 13 Disposal considerations**

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 : Disposal must be done according to official regulations.

Additional information : Do not re-use empty containers.

# **SECTION 14 Transport information**

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
UN3267	UN3267	3267	3267

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DOT	TDG	IMDG	IATA
14.2. Proper Shipping Name			
Corrosive liquid, basic, organic, n.o.s. (Fatty acids, tall-oil, reaction products with tetraethylenepentamine)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Fatty acids, tall- oil, reaction products with tetraethylenepentamine)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Fatty acids, tall- oil, reaction products with tetraethylenepentamine)	Corrosive liquid, basic, organic, n.o.s. (Fatty acids, tall-oil, reaction products with tetraethylenepentamine)
14.3. Transport hazard class(es	s)		
8	8	8	8
CORROSIVE 8	8	8	8
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
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. Transport in bulk

Not applicable

#### 14.7. Special precautions for user

DOT

UN-No. (DOT) : UN3267

DOT Special Provisions (49 CFR 172.102) : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids

with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table

2 for UN2672).

T7 - 4 178.274(d)(2) Normal...... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the

MAWP.

: 60 L

DOT Packaging Exceptions (49 CFR 173.xxx) : 154
DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 241
DOT Quantity Limitations Passenger aircraft/rail (49 : 5 L

CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49

CFR 175.75)

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

passenger vessel.

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters",52 - Stow "separated from" acids

TDG

UN-No. (TDG) : UN3267

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**TDG Special Provisions** 

- : 16 (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the danger or dangers 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). 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).
  - (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.

Explosive Limit and Limited Quantity Index : 5 L
Excepted quantities (TDG) : E1

Passenger Carrying Road Vehicle or Passenger

Carrying Railway Vehicle Index

Emergency Response Guide (ERG) Number

: 5 L : 153

#### **IMDG**

Special provision (IMDG): 223, 274Limited quantities (IMDG): 5 LExcepted quantities (IMDG): E1Packing instructions (IMDG): P001, LP01IBC packing instructions (IMDG): IBC03Tank instructions (IMDG): T7Tank special provisions (IMDG): TP1, TP28

EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE EmS-No. (Spillage) : S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES

Stowage category (IMDG) : A
Stowage and handling (IMDG) : SW2

Segregation (IMDG) : SGG18, SG35

Properties and observations (IMDG) : Reacts violently with acids. Causes burns to skin, eyes and mucous membranes.

#### **IATA**

: A3, A803 Special provision (IATA) : E1 PCA Excepted quantities (IATA) PCA Limited quantities (IATA) : Y841 PCA limited quantity max net quantity (IATA) : 11 PCA packing instructions (IATA) : 852 5L PCA max net quantity (IATA) : 856 CAO packing instructions (IATA) CAO max net quantity (IATA) 60L ERG code (IATA) 8L

## **SECTION 15 Regulatory information**

#### 15.1. 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

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Contains chemical(s) subject to TSCA 12b export notification if product is shipped outside the U.S		
Phenol, 4-nonyl-, branched	CAS-No. 84852-15-3	10 – 30%
Phenol, 2-nonyl-, branched	CAS-No. 91672-41-2	< 5%

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.

Phenol, 4-nonyl-, branched	CAS-No. 84852-15-3	10 – 30%
Phenol, 4,4'-(1-methylethylidene)bis-	CAS-No. 80-05-7	< 5%

## 15.2. International regulations

#### **CANADA**

## Phenol, 4-nonyl-, branched (84852-15-3)

Listed on the Canadian DSL (Domestic Substances List)

## Fatty acids, tall-oil, reaction products with tetraethylenepentamine (68953-36-6)

Listed on the Canadian DSL (Domestic Substances List)

## **Tetraethylenepentamine (112-57-2)**

Listed on the Canadian DSL (Domestic Substances List)

#### Diethylenetriamine (111-40-0)

Listed on the Canadian DSL (Domestic Substances List)

#### Cyclic Ethyleneamine (140-31-8)

Listed on the Canadian DSL (Domestic Substances List)

## Phenol, 2-nonyl-, branched (91672-41-2)

Listed on the Canadian NDSL (Non-Domestic Substances List)

## Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### **National regulations**

#### Phenol, 4-nonyl-, branched (84852-15-3)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### **Tetraethylenepentamine (112-57-2)**

Listed on INSQ (Mexican National Inventory of Chemical Substances)

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

#### **Diethylenetriamine (111-40-0)**

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### Cyclic Ethyleneamine (140-31-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

## Phenol, 4,4'-(1-methylethylidene)bis- (80-05-7)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

## 15.3. State regulations



This product can expose you to chemicals including Bisphenol A (BPA), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
Tetraethylenepentamine(112-57-2)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Diethylenetriamine(111-40-0)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Cyclic Ethyleneamine(140-31-8)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Phenol, 4,4'-(1-methylethylidene)bis-(80-05-7)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

## **SECTION 16 Other information**

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Revision date : 5/12/2025 Issue date : 5/12/2025

Full text of hazard classes and H-statements	
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H360	May damage fertility or the unborn child
H361	Suspected of damaging fertility or the unborn child

# Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Full text of hazard classes and H-statements	
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), USA

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.