



QUALIPUR 172 Part B

1	PRODUCT AND COMPANY IDENTIFICATION
---	------------------------------------

Product Identifier: QUALIPUR 172 Part B

Revision Date: 6/12/2018

Supplier Details: Advanced Polymer Technology
P.O. Box 160, 109 Conica Lane
Harmony, PA 16037

Contact: Senior Chemist

Phone: 724-452-1330

Fax: 724-452-1703

Email: info@advpolytech.com

Internet: www.advpolytech.com

Transportation emergency phone number: ChemTel Inc. (800)255-3924, +1 (813)248-0585

Classification of Substance**GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):**

Health, Skin corrosion/irritation, 1 B
 Health, Acute toxicity, 4 Oral
 Health, Acute toxicity, 4 Dermal
 Health, Respiratory or skin sensitization, 1 Skin
 Environmental, Hazards to the aquatic environment - Chronic, 3

GHS Label Elements, Including Precautionary Statements**GHS Signal Word: DANGER****GHS Hazard Pictograms:****GHS Hazard Statements:**

H314 - Causes severe skin burns and eye damage
 H302 - Harmful if swallowed
 H312 - Harmful in contact with skin
 H317 - May cause an allergic skin reaction
 H412 - Harmful to aquatic life with long lasting effects

GHS Precautionary Statements:

P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P264 - Wash _ thoroughly after handling.
 P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
 P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

Contains 3-aminomethyl-3,5,5-trimethylcyclohexylamine, Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer. May produce an allergic reaction.

Chemical Ingredients		
CAS#	%	Chemical Name
2855-13-2	25-50%	Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-
100-51-6	25-50%	Benzyl alcohol
68609-08-5	10-25%	Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer
90-72-2	<10%	Phenol, 2,4,6-tris[(dimethylamino)methyl]-

General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of irregular breathing or respiratory arrest provide artificial respiration.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Remove contact lenses if worn, if possible.

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

Most important symptoms and effects, both acute and delayed

Allergic reactions

Gastric or intestinal disorders

Dizziness

Coughing

Hazards

Danger of gastric perforation.

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

Treat skin and mucous membrane with antihistamine and corticoid preparations.

In cases of irritation to the lungs, initial treatment with corticoid inhalants.

If necessary oxygen respiration treatment.

Flash Point: 113 °C (235 °F)

Lower Explosive Limit: 1,3 Vol %

Upper Explosive Limit: 13,0 Vol %

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: None.

Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information

Cool endangered receptacles with water spray.

No further relevant information available.

Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste.

Handling Precautions:

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

Storage Requirements:

Information about fire - and explosion protection: No special measures required.

Requirements to be met by storerooms and receptacles:

Provide ventilation for receptacles.

Protect from humidity and water.

Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with oxidizing and acidic materials.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Keep container tightly sealed.

8	EXPOSURE CONTROLS/PERSONAL PROTECTION
---	---------------------------------------

Engineering Controls:

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Ensure compliance yo all relevant OSHA regulations.

Personal Protective Equipment:

General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.
Use suitable respiratory protective device when aerosol or mist is formed.

Protection of hands:
Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Fluorocarbon rubber (Viton)

Neoprene gloves

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Contact lenses should not be worn.

Safety glasses

Body protection: Protective work clothing

Limitation and supervision of exposure into the environment

No further relevant information available.

Risk management measures

No further relevant information available.

Ingredients with limit values that require monitoring at the workplace:

100-51-6 Benzyl alcohol WEEL (USA) 10 ppm

DNELs No further relevant information available.

PNECs No further relevant information available.

9	PHYSICAL AND CHEMICAL PROPERTIES
---	----------------------------------

Appearance:

Clear yellow Liquid

Physical State:

Liquid

Odor:

Amine Oder

Specific Gravity or Density:

1 g/cm³

Flash Point:

113 °C (235 °F)

Boiling Point:

195 °C (383 °F)

Autoignition

435 °C (815 °F)

Temperature:
Vapor Pressure:

0,1 hPa

10	STABILITY AND REACTIVITY
----	--------------------------

Chemical Stability:	No decomposition if used and stored according to specifications.
Conditions to Avoid:	Keep ignition sources away - Do not smoke.
Identification:	Moisture.
	Keep away from heat and direct sunlight.
	Store away from oxidizing agents.
Materials to Avoid:	Can react violently with oxygen rich (oxidizing) material. Danger of Explosion.
	Reacts with strong acids.
	Exothermic polymerization.
Hazardous Decomposition:	Carbon monoxide and carbon dioxide
	Nitrogen oxides
	Toxic fumes may be released if heated above the decomposition point.
Hazardous Polymerization:	Exothermic polymerization.

11	TOXICOLOGICAL INFORMATION
----	---------------------------

LD/LC50 values relevant for classification:

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Oral LD50 1030 mg/kg (rat)

100-51-6 Benzyl alcohol

Oral LD50 1230 mg/kg (rat)

Dermal LD50 2000 mg/kg (rabbit)

Primary irritant effect:

on the skin: Strong caustic effect on skin and mucous membranes.

on the eye: Strong caustic effect.

Sensitization: Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Corrosive

Irritant

Danger through skin adsorption.

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Toxic and/or corrosive effects may be delayed up to 24 hours.

Sensitisation: Sensitization possible by skin contact.

Repeated dose toxicity: Repeated exposures may result in skin and/or respiratory sensitivity.

Aquatic toxicity: The product contains materials that are harmful to the environment.

Persistence and degradability No further relevant information available.

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Ecotoxical effects:

Remark:

Harmful to fish

Due to mechanical actions of the product (e.g. agglutinations) damages may occur.

The product is oxygen-consuming. The declared action may be partly caused by lack of oxygen.

Additional ecological information:

General notes:

This statement was deduced from the properties of the single components.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

UN-Number DOT, ADR, IMDG, IATA

UN2735

UN proper shipping name DOT, IMDG, IATA

POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE)

ADR

2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE)

Transport hazard class(es)**DOT****Class**

8 Corrosive substances.

Label

8

ADR**Class**

8 (C7) Corrosive substances.

Label

8

IMDG, IATA**Class**

8 Corrosive substances.

Label

8

Packing group DOT, ADR, IMDG, IATA

III

Environmental hazards:**Marine pollutant:**

No

Special precautions for user

Warning: Corrosive substances.

Danger code (Kemler):

80

EMS Number:

F-A,S-B

Segregation groups

Alkalis

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:**ADR****Limited quantities (LQ)**

5L

Transport category

3

Tunnel restriction code

E

UN "Model Regulation":

UN2735, POLYAMINES, LIQUID, CORROSIVE,

Component (CAS#) [%] - CODES

Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl- (2855-13-2) [25-50%] TSCA

Benzyl alcohol (100-51-6) [25-50%] HAP, MASS, PA, TSCA

Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer (68609-08-5) [10-25%] TSCA

Phenol, 2,4,6-tris[(dimethylamino)methyl]- (90-72-2) [<10%] TSCA

Regulatory CODE Descriptions

TSCA = Toxic Substances Control Act

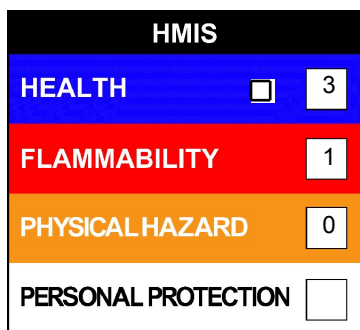
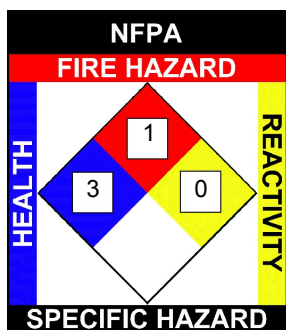
HAP = Hazardous Air Pollutants

MASS = MA Massachusetts Hazardous Substances List

PA = PA Right-To-Know List of Hazardous Substances

NFPA: Health = 3, Fire = 1, Reactivity = 0, Specific Hazard = n/a

HMIS III: Health = 3, Fire = 1, Physical Hazard = 0



This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Revision Date: 6/12/2018