QUALIPUR 7611

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: QUALIPUR 7611
Revision Date: 4/9/2020

Supplier Details: Advanced Polymer Technology
109 Conica Lane, Evans City, PA 16033

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

2 HAZARDS IDENTIFICATION

Classification of Substance

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):
No GHS Classifications Indicated

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: NONE

GHS Hazard Pictograms:

No GHS pictograms indicated for this product

GHS Hazard Statements:

No GHS hazards statements indicated

GHS Precautionary Statements:

P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P264 - Wash hands thoroughly after handling.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+313 - Get medical advice/attention.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients:

CAS#	%	Chemical Name:
77-94-1	<2.5%	1,2,3-Propanetricarboxylic acid, 2-hydroxy-, tributyl ester
1071-93-8	<2.5%	Hexanedioic acid, dihydrazide
140-88-5	<0.01%	2-Propenoic acid, ethyl ester
123-91-1	<0.01%	1,4-Diethylenedioxide
872-50-4	<0.01%	1-Methyl-2-pyrrolidone
7664-41-7	<0.3%	Ammonia (conc 20% or greater)

4 FIRST AID MEASURES

General information: Take affected persons out into the fresh air.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:
Immediately rinse with water.
If skin irritation continues, consult a doctor.

After eye contact:
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. If symptoms persist, 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
Nausea
Cramp
Dizziness
Coughing

Hazards 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 cortical steroid inhalants.

5 FIRE FIGHTING MEASURES

Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents: Water with full jet
Special hazards arising from the substance or mixture
In case of fire, the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NOx)
Under certain fire conditions, traces of other toxic gases cannot be excluded.

Advice for firefighters
Protective equipment:
Wear self-contained respiratory protective device.
Wear fully protective suit.
Additional information
Cool endangered receptacles with water fog or haze.
No further relevant information available.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Wear protective clothing.
Ensure adequate ventilation

Environmental precautions: 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).
Send for recovery or disposal in suitable receptacles.

7 HANDLING AND STORAGE

Handling Precautions:

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

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

Storage Requirements:

Requirements to be met by storerooms and receptacles:
Store in a cool location.
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:

Educate and train employees in safe use of this product. Follow all label instruction. Local exhaust should be used to maintain levels below the TLV henever this product is processed, heated or spray applied. For spray applications, an air-supplied respirator must be worn. All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).

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.
Avoid contact with the eyes and skin.

Respiratory protection:
Not required under normal conditions of use.
Use suitable respiratory protective device when aerosol or mist is formed.
Use suitable respiratory protective device when high concentrations are present.

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
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.
For the permanent contact gloves made of the following materials are suitable:
Butyl rubber, BR
Neoprene gloves

Eye protection:
Goggles recommended during refilling
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:
None of the components have assigned exposure limits.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pigmented Liquid		
Physical State:	Liquid	**Odor:**	No data available
Odor Threshold:	No data available	**Solubility:**	No data available
Specific Gravity or Density:	1,26 g/cm³	**Freezing or Melting Point:**	No data available
Viscosity:	No data available	**Flash Point:**	No data available
Boiling Point:	212 °F / 100 °C	**Vapor Density:**	No data available
Partition Coefficient:	No data available	**Volatile organic compound:**	< 2 g/L
Vapor Pressure:	No data available	**Autoignition Temperature:**	No data available
Potentia Hydrogenii:	No data available	**Upper Flammability Limit and Lower Flammability Limit:**	No data available
Evaporation Rate:	No data available		
Decompression Temperature:	No data available		

10 STABILITY AND REACTIVITY

Reactivity:	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability:	No decomposition if used and stored according to specifications.
Conditions to Avoldentification:	Store away from oxidizing agents.
Materials to Avoldentification:	Reacts with strong acids and oxidizing agents. Reacts with catalysts.
Hazardous Decomposition:	Poisonous gases/vapours Nitrogen oxides Carbon monoxide and carbon dioxide
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Acute toxicity:
Tri-n-Butyl Citrate
Acute Oral LD50: Oral LD50 (rat) > 30 mL/kg
Oral LD50 (cat) > 50 mL/kg
Acute Dermal LD50: No data available.
Acute Inhalation LC50: No data available.
Other Toxicity Data: Intraperitoneal LD50 (mouse) = 2900 mg/kg
Skin Irritation: May cause slight irritation.
Skin Sensitization: No data available.
Eye Irritation: May cause slight irritation.
Target Organs: TDLo (intraperitoneal, mouse) = 8120 mg/kg/14D-I
Carcinogenicity: This material is not listed by IARC, NTP or OSHA as a carcinogen. No test data is available that indicates this material is a carcinogen.
Teratogenicity: No data available.
Reproduction: No data available.
Neurotoxicity: No data available.
Mutagenicity: No data available.

Primary irritant effect:
on the skin: Slight irritant effect on skin and mucous membranes.
on the eye: Irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 ECOLOGICAL INFORMATION

Adipic dihydrazide

Fish LC 50 (Common Carp, 96 h): > 100 mg/l
Aquatic Invertebrates EC 50 (Water flea (Daphnia magna), 48 h): > 106 mg/l
Toxicity to Aquatic Plants EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 9.19 mg/l
Toxicity to soil dwelling organisms No data available
Sediment Toxicity No data available
Toxicity to Terrestrial Plants No data available
Toxicity to Above-Ground Organisms No data available
Toxicity to microorganisms No data available

Persistence and Degradability
Biodegradation 62.14 %, 28 d, Not readily degradable.
Bioaccumulative Potential Bioconcentration Factor (BCF) No data available
Partition Coefficient n-octanol / water (log Kow) No data available
Mobility No data available
Other Adverse Effects No data available.

13 DISPOSAL CONSIDERATIONS

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.

Uncleaned packaging
Recommendation: Disposal must be made according to official regulations.
Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 TRANSPORT INFORMATION

UN-Number DOT, ADR, ADN, IMDG, IATA	N/A
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	N/A
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class	N/A
Packing group DOT, ADR, IMDG, IATA	N/A
Marine pollutant	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation"	---

15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

1,2,3-Propanetricarboxylic acid, 2-hydroxy-, tributyl ester (77-94-1) [<2.5%] TSCA

Hexanedioic acid, dihydrazide (1071-93-8) [<2.5%] TSCA

RQ(1000LBS), 2-Propenoic acid, ethyl ester (140-88-5) [<0.01%] CERCLA, HAP, MASS, NJHS, NRC, OSHAWAC, PA, PROP65, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

RQ(100LBS), 1,4-Diethylenedioxide (123-91-1) [<0.01%] CERCLA, HAP, MASS, NJHS, NRC, OSHAWAC, PA, PROP65, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

1-Methyl-2-pyrrolidone (872-50-4) [<0.01%] GADSL, MASS, NJHS, PA, REACH, SARA313, TSCA

RQ(100LBS), Ammonia (conc 20% or greater) (7664-41-7) [<0.1%] CERCLA, CSWHS, EHS302, EPCRAWPC, MASS, NJEHS, NJHS, OSHAPSM, OSHAWAC, PA, SARA313, TSCA, TXAIR

WARNING

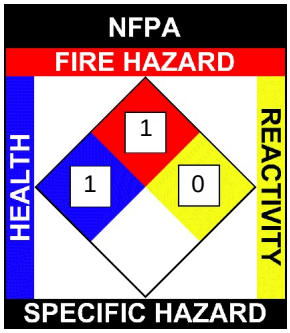
This product can expose you to chemicals including Ethyl acrylate, and 1,4-Dioxane, which are known to the State of California to cause cancer, and N-Methylpyrrolidone, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

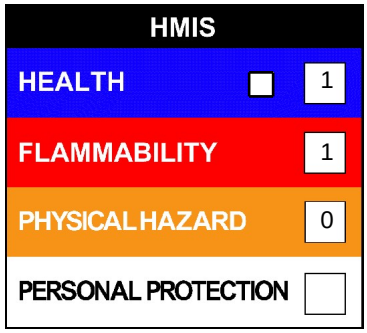
Regulatory CODE Descriptions

RQ = Reportable Quantity
TSCA = Toxic Substances Control Act
CERCLA = Superfund Cleanup Substances
HAP = Hazardous Air Pollutants
MASS = MA Massachusetts Hazardous Substances List
NJHS = NJ Right-to-Know Hazardous Substances
NRC = Nationally Recognized Carcinogens
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
PROP65 = CA Prop 65
SARA313 = SARA 313 Title III Toxic Chemicals
TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)
TXAIR = TX Air Contaminants with Health Effects Screening Level
TXHWL = TX Hazardous Waste List
GADSL = Global Automotive Declarable Substance List (GADSL)
REACH = REACH List of Substances of Very High Concern (RSL)
CSWHS = Clean Water Act Hazardous Substances
EHS302 = Extremely Hazardous Substance
EPCRAWPC = EPCRA Water Priority Chemicals
NJEHS = NJ Extraordinarily Hazardous Substances
OSHAPSM = OSHA Chemicals Requiring Process Safety Management

16	OTHER INFORMATION

NFPA: Health = 1, Fire = 1, Reactivity = 0, Specific Hazard = n/a
HMIS III: Health = 1, 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: 4/9/2020