

1. IDENTIFICATION

Product Name	DTPMPA.7Na AQUACID 1067EX
Other Names	No Data Available
Uses	Additive for cleaning/washing agents, personal care products, bleach stabilisation, industrial water treatment, metal surface treatment, oilfield water systems, coatings and paints, paper industry, textile industry, water desalination systems, agrochemicals and ceramics as scale inhibitor, complexing agent.
Chemical Family	No Data Available
Chemical Formula	No Data Available
Chemical Name	DTPMPA.7Na AQUACID 1067EX
Product Description	Alternative CAS No. 68155-78-2

Contact Details of the Supplier of this Safety Data Sheet

Organisation	Location	Telephone
Redox Pty Ltd	2 Swettenham Road Minto NSW 2566 Australia	+61-2-97333000
Redox Pty Ltd	11 Mayo Road Wiri Auckland 2104 New Zealand	+64-9-2506222
Redox Inc.	3960 Paramount Boulevard Suite 107 Lakewood CA 90712 USA	+1-424-675-3200
Redox Chemicals Sdn Bhd	Level 2, No. 8, Jalan Sapir 33/7 Seksyen 33, Shah Alam Premier Industrial Park 40400 Shah Alam Sengalor, Malaysia	+60-3-5614-2111

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation	Location	Telephone
Poisons Information Centre	Westmead NSW	1800-251525 131126
Chemcall	Australia	1800-127406 +64-4-9179888
Chemcall	Malaysia	+64-4-9179888
Chemcall	New Zealand	0800-243622 +64-4-9179888
National Poisons Centre	New Zealand	0800-764766
CHEMTREC	USA & Canada	1-800-424-9300 CN723420 +1-703-527-3887

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) Not Scheduled

Globally Harmonised System

Hazard Classification NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Signal Word None

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Diethylenetriamine penta(methylenephosphoric acid) sodium salt	No Data Available	22042-96-2	31 - 33 %
Formaldehyde	No Data Available	50-00-0	0 - 0.005 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	If swallowed, rinse mouth. Call a Poison Centre or doctor/physician if you feel unwell.
Eye	If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
Skin	If on skin, remove immediately all contaminated clothing and shoes. Rinse skin with water/shower. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing before reuse.
Inhaled	If inhaled, remove victim to fresh air, and keep at rest in a position comfortable for breathing. Apply resuscitation if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet – Obtain immediate medical care.
Advice to Doctor	Treat symptomatically.
Medical Conditions Aggravated by Exposure	No information available.

5. FIRE FIGHTING MEASURES

General Measures	If safe to do so, move undamaged containers from fire area. Cool containers with flooding quantities of water until well after fire is out.
Flammability Conditions	Non-flammable aqueous solution.
Extinguishing Media	Suitable: Water spray, foam, dry chemical or Carbon dioxide.
Fire and Explosion Hazard	No information available.
Hazardous Products of Combustion	Decomposes and gives-off irritant fumes. On combustion or thermal decomposition, releases corrosive vapours - Carbon oxides (CO+CO ₂), Phosphorus oxides, Nitrogen oxides (NO _x) and HCl. Above 200 deg.C, releases Phosphine.
Special Fire Fighting Instructions	Runoff from fire control water may pollute waterways. Keep out of drains and watercourses. Follow local regulations for safe disposal of contaminated fire control water.
Personal Protective Equipment	Wear self-contained breathing apparatus and suitable protective clothing.
Flash Point	No Data Available
Lower Explosion Limit	No Data Available

Upper Explosion Limit	No Data Available
Auto Ignition Temperature	No Data Available
Hazchem Code	No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Ensure adequate ventilation. Do not touch or walk through spilled material. Recover as much of the product as possible. Emergency responders must wear the appropriate personal protective equipment for the situation to which they are responding.
Clean Up Procedures	Neutralise with Calcium hydroxide, Sodium bicarbonate. Absorb the spillage with porous material (diatomaceous earth, sand or inert absorbent). Transfer into a spare container - suitably labelled for subsequent recycling or disposal.
Containment	Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Use containment walls to contain, reclaim or safely dispose of spills.
Decontamination	Wash non-recoverable remainder with large amounts of water. Avoid direct discharge into drains.
Environmental Precautionary Measures	Runoff from dilution water may pollute waterways. Keep out of drains and watercourses. Follow local regulations for safe disposal of contaminate absorbent materials and containers.
Evacuation Criteria	Spill or leak area should be isolated immediately. Keep unauthorised personnel away.
Personal Precautionary Measures	Use personal protective equipment recommended in Section 8.

7. HANDLING AND STORAGE

Handling	Provide good natural or artificial ventilation. Ensure an eye bath and safety shower are available and ready for use. Handle in accordance with good industrial hygiene and safety practices. Use appropriate personal protection and avoid unnecessary exposure. Do not get in eyes, on skin or on clothing. Empty containers retain vapour and product residue. Observe all recommended safety precautions until container is cleaned, reconditioned or destroyed.
Storage	Store in a cool, dry and well-ventilated area. Store above freezing point (-14 deg.C). Take all necessary precautions to avoid accidental release of the product due to the rupture of containers or transfer systems. Ensure there is a suitable retention system. Keep away from acids, metals and oxidising agents.
Container	Keep in original containers, or metal containers with glass, PVC, PP, PE or GRP lining. Do NOT store in metal containers such as Carbon steel, aluminium, etc.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	No specific occupational exposure limit has been established for this product. Safe Work Australia Exposure Standard for COMPONENT: Formaldehyde (CAS No. 50-00-0): TWA = 1 ppm or 1.2 mg/m ³ STEL = 2 ppm or 2.5 mg/m ³ Carcinogen category notice (Formaldehyde): Category 2. Probable human carcinogen for which there is sufficient evidence to provide a strong presumption that human exposure might result in the development of cancer. Sensitiser notice (Formaldehyde): Some substances can cause a specific immune response in some people. Sensitisation may manifest as a skin rash or inflammation, or as an asthmatic condition, in some individuals this reaction can be extremely severe.
Exposure Limits	No Data Available
Biological Limits	No information available.
Engineering Measures	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
Personal Protection Equipment	EYE/FACE PROTECTION: Use face shield and/or chemical goggles. HAND PROTECTION: Wear chemical resistant gloves. SKIN/BODY PROTECTION: Wear suitable protective clothing. RESPIRATORY PROTECTION: In case of insufficient ventilation, wear suitable respiratory equipment. Use approved respiratory protective equipment when airborne exposure is excessive. Observe respirator use limitations.
Special Hazards Precautions	No information available.

Work Hygienic Practices

Do not eat, drink or smoke when handling this product. Wash thoroughly after handling. Use clean and correctly maintained personal protective equipment. Keep personal protective equipment in a clean place, away from the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Liquid
Odour	Characteristic
Colour	Amber
pH	6 - 8 1% solution
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	>100 °C
Melting Point	No Data Available
Freezing Point	-14 °C
Solubility	Soluble
Specific Gravity	1.28 - 1.32
Flash Point	No Data Available
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available
Decomposition Temperature	No Data Available
Density	No Data Available
Specific Heat	No Data Available
Molecular Weight	No Data Available
Net Propellant Weight	No Data Available
Octanol Water Coefficient	-3.4 @ 25 deg.C
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	No Data Available
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No Data Available
Potential for Dust Explosion	Not applicable.
Fast or Intensely Burning Characteristics	No information available.
Flame Propagation or Burning Rate of Solid Materials	No information available.
Non-Flammables That Could Contribute Unusual Hazards to a Fire	No information available.
Properties That May Initiate or Contribute to Fire Intensity	No information available.
Reactions That Release Gases or Vapours	Above 200 deg.C, releases Phosphine.
Release of Invisible Flammable Vapours and Gases	No information available.

10. STABILITY AND REACTIVITY

General Information	Reacts vigorously with acids, metals and oxidising agents.
Chemical Stability	Stable under normal conditions of storage and transport.
Conditions to Avoid	Avoid heating.
Materials to Avoid	Avoid acids, metals and oxidising agents.
Hazardous Decomposition Products	Carbon monoxide, Carbon dioxide, Phosphorus oxides, Nitrogen oxides, HCl and Phosphine.
Hazardous Polymerisation	No information available.

11. TOXICOLOGICAL INFORMATION

General Information	Likely routes of exposure: Potential health effects Eyes: May cause slight irritation Skin: Not irritating to skin. No toxic effects if absorbed. Ingestion: No toxic effects if swallowed. Inhalation: No information available.
Acute	
Ingestion	Acute Oral Toxicity - Rat LD50 >5,838 mg/kg Doses: 1,751 - 5,838 mg/kg Symptoms: Decreased respiratory rate, diarrhoea, ataxia and convulsions.
Other	Acute Dermal Toxicity - Rat LD50 >5,838 mg/kg Dose: 5,838 mg/kg Symptoms: No deaths or significant toxicity observed.
SkinIrritant	Species: Rabbit Duration: 4 h Result: Non-irritant
Eyelrritant	Species: Rabbit Duration: 72 h Result: Slight irritation (very mild symptoms, resolved in 24 hours).
Sensitisation	Guinea Pig Maximisation Test: Not sensitising (Read across data on acid form of test substance)
Mutagenicity	In-vitro: Negative In-vivo: Negative
Reproduction	Species: Rat NOAEL: 1,000 mg/kg bw/day (ferotoxicity), 2,000 mg/kg bw/day (teratogenicity).
Chronic	
Ingestion	Species: Rat Route of administration: Oral Duration: 90 days NOAEL: 82.5 mg/kg bw/day (male), 92.3 mg/kg bw/day (female) Method: OECD 408
Carcinogen Category	None

12. ECOLOGICAL INFORMATION

Ecotoxicity	Toxicity to fish: Oncorhynchus mykiss (Rainbow Trout) LC50: 1,200 mg/l (96 hours). Toxicity to invertebrates: Acartia tonsa (Copepod) EC50: 158 mg/l (48 hours). Toxicity to Algae: Skeletonema costatum EC50: 36 mg/l (72 hours). Algal growth inhibition not due to toxicity per se.
Persistence/Degradability	Not readily biodegradable. Test method: Degree of removal (%)

OECD 301D : 7%
OECD 302B, 28 d: 0%
OECD 301E, 28 d: 0%
OECD 306, 28 d: 0%

Mobility	Koc: 9,748 log Koc: 3.99 (Read across data on acid form of test substance).
Environmental Fate	Keep out of drains and watercourses.
Bioaccumulation Potential	BCF <94 (Species: Cyprinus carpio) Not expected to bioaccumulate.
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	The generation of waste should be avoided or minimised wherever possible. All local and national regulations should be followed. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special Precautions for Land Fill	Care should be taken when handling emptied containers that have not been cleaned/rinsed out. Empty containers or liners may retain some product residues. The reuse of this material's container for non-industrial purposes is prohibited, and any reuse must be in consideration of the data provided in this SDS.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name	DTPMPA.7Na AQUACID 1067EX
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (Malaysia)

ADR Code

Proper Shipping Name	DTPMPA.7Na AQUACID 1067EX
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (New Zealand)

NZS5433

Proper Shipping Name	DTPMPA.7Na AQUACID 1067EX
Class	No Data Available
Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (United States of America)

US DOT

Proper Shipping Name	DTPMPA.7Na AQUACID 1067EX
Class	No Data Available
Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

Sea Transport

IMDG Code

Proper Shipping Name	DTPMPA.7Na AQUACID 1067EX
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
EMS	No Data Available
Marine Pollutant	No
Comments	NON-DANGEROUS GOODS: Not regulated for SEA transport.

Air Transport

IATA DGR

Proper Shipping Name	DTPMPA.7Na AQUACID 1067EX
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for AIR transport.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification

NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

15. REGULATORY INFORMATION

General Information

No Data Available

Poisons Schedule (Aust)

Not Scheduled

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code

Not Assessed

National/Regional Inventories

Australia (AICS)

Listed

Canada (DSL)

Listed

Canada (NDSL)

Not Listed

China (IECSC)

Listed

Europe (EINECS)

244-751-4
(Alternative: 268-990-9)

Europe (REACH)

01-2119514449-36-0003

Japan (ENCS/METI)

Listed

Korea (KECI)

Listed

Malaysia (EHS Register)

Not Determined

New Zealand (NZIoC)

Listed

Philippines (PICCS)

Listed

Switzerland (Giftliste 1)

Not Determined

Switzerland (Inventory of Notified Substances)

Not Determined

Taiwan (NCSR)

Listed

USA (TSCA)

Listed

16. OTHER INFORMATION

Related Product Codes

PHOSPD5520

Revision

1

04 May 2015

Revision Date

Key/Legend

< Less Than
> Greater Than
AICS Australian Inventory of Chemical Substances
atm Atmosphere
CAS Chemical Abstracts Service (Registry Number)
cm² Square Centimetres
CO₂ Carbon Dioxide
COD Chemical Oxygen Demand
deg C (°C) Degrees Celcius
EPA (New Zealand) Environmental Protection Authority of New Zealand
deg F (°F) Degrees Farenheit
g Grams
g/cm³ Grams per Cubic Centimetre
g/l Grams per Litre
HSNO Hazardous Substance and New Organism
IDLH Immediately Dangerous to Life and Health
immiscible Liquids are insoluble in each other.
inHg Inch of Mercury
inH₂O Inch of Water
K Kelvin
kg Kilogram
kg/m³ Kilograms per Cubic Metre
lb Pound
LC₅₀ LC stands for lethal concentration. LC₅₀ is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
LD₅₀ LD stands for Lethal Dose. LD₅₀ is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.
ltr or **L** Litre
m³ Cubic Metre
mbar Millibar
mg Milligram
mg/24H Milligrams per 24 Hours
mg/kg Milligrams per Kilogram
mg/m³ Milligrams per Cubic Metre
Misc or **Miscible** Liquids form one homogeneous liquid phase regardless of the amount of either component present.
mm Millimetre
mmH₂O Millimetres of Water
mPa.s Millipascals per Second
N/A Not Applicable
NIOSH National Institute for Occupational Safety and Health
NOHSC National Occupational Health and Safety Commission
OECD Organisation for Economic Co-operation and Development
Oz Ounce
PEL Permissible Exposure Limit
Pa Pascal
ppb Parts per Billion
ppm Parts per Million
ppm/2h Parts per Million per 2 Hours
ppm/6h Parts per Million per 6 Hours
psi Pounds per Square Inch
R Rankine
RCP Reciprocal Calculation Procedure
STEL Short Term Exposure Limit
TLV Threshold Limit Value
tne Tonne
TWA Time Weighted Average
ug/24H Micrograms per 24 Hours
UN United Nations
wt Weight