

Section 1. IDENTIFICATION

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|-----------------------------|---|
| Product Name: | Acetic acid, >80% aqueous solution |
| Other Names: | Ethanoic acid, >80% |
| Uses: | Manufacture of chemicals; research; photographic chemicals; latex coagulant; oil-well acidifier; textile printing; solvent for gums, resins and volatile oils; dyes; antimicrobial agent; insecticides; pharmaceuticals; food preservative; cosmetic use. |
| Chemical Family: | No Data Available |
| Chemical Formula: | C ₂ H ₄ O ₂ |
| Chemical Name: | Acetic Acid, >80% |
| Product Description: | No Data Available |

CONTACT DETAILS OF THE SUPPLIER OF THIS SAFETY DATA SHEET

| | |
|------------------------|--|
| Business: | Colonial Chemicals Australia |
| Address: | Skewes Road, Bendemeer, NSW, AUSTRALIA,2355 |
| Postal Address: | P.O Box 167 Moonbi, NSW,2353 |
| Phone: | 02 67 696 658 Mobile: 0427 696658 Fax: 02 57015137 |
| Email: | admin@colonialchemicals.com.au |
| Web Site: | www.colonialchemicals.com.au |

Emergency Contact Details -For emergencies only; DO NOT contact these companies for general product advice.

Poisons Information Centre -Westmead NSW **131126 or 1800-251525**
Chemcall Australia **1800-127406**

Section 2. HAZARD IDENTIFICATION

| | |
|---|---|
| Poisons Schedule (Aust) | Schedule 6 |
| Globally Harmonised System Hazard Classification | Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) |
| Hazard Categories | Flammable Liquids - Category 3 Corrosive to Metals - Category 1 Skin Corrosion/Irritation - Category 1B Serious Eye Damage/Irritation - Category 1 |

Pictograms



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SAFETY DATA SHEET

Section 2. HAZARD IDENTIFICATION (Continued)

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|---------------------------------|---------------------------|---|--|--|
| Signal Word | | Danger | | |
| Hazard Statements | | H226 | Flammable liquid and vapour. | |
| | | H290 | May be corrosive to metals. | |
| | | H314 | Causes severe skin burns and eye damage. | |
| Precautionary Statements | Prevention | P210 | Keep away from heat/sparks/open flames/hot surfaces. No smoking. | |
| | | P260 | Do not breathe mist/vapour/spray. | |
| | | P280 | Wear protective gloves/protective clothing/eye protection/face protection. | |
| | | P233 | Keep container tightly closed. | |
| | | P240 | Ground/bond container and receiving equipment. | |
| | | P241 | Use explosion-proof electrical/ventilating/lighting and all other equipment. | |
| | | P242 | Use only non-sparking tools. | |
| | | P243 | Take precautionary measures against static discharge. | |
| | | Response | P370 + P378 | In case of fire: Alcohol resistant foam is the preferred fire-fighting medium. However, if it is not available, fine water spray or water fog can be used to extinguish. |
| | | | P303 + P361 + P353 | IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. |
| | | | P310 | Immediately call a POISON CENTER or doctor/physician. |
| | | | P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| | P390 | | Absorb spillage to prevent material damage. | |
| | P301 + P330 + P331 | | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. | |
| | P363 | | Wash contaminated clothing before reuse. | |
| | Storage | P304 + P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. | |
| | | P403 + P235 | Store in a well-ventilated place. Keep cool. | |
| | | P406 | Store in corrosive resistant container with a resistant inner liner. | |
| | Disposal | P405 | Store locked up. | |
| P501 | | Dispose of contents/container in accordance with local / regional / national / international regulations. | | |

National Transport Commission (Australia)

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

Dangerous Goods Classification Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS

| CHEMICAL ENTITY | FORMULA | CAS NUMBER | PROPORTION% |
|-----------------|---------|------------|-------------|
| Acetic Acid | C2H4O2 | 64-19-7 | >80% |
| Water | H2O | 7732-18-5 | Balance % |

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Section 4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

| | |
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| Swallowed | IF SWALLOWED: Rinse mouth, then drink plenty of water. Do not induce vomiting. Immediately call a Poison Centre or doctor/physician for advice. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Never give anything by mouth to an unconscious person. |
| Eye | IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. Immediately call a Poison Centre or doctor/physician; Transport to hospital or doctor without delay. |
| Skin | IF ON SKIN (or hair): Remove contaminated clothing and shoes immediately - For gross contamination, drench clothing and skin with plenty of water before removing clothes. Flush skin and hair with running water for at least 15 minutes. Immediately call a Poison Centre or doctor/physician; Transport to hospital or doctor without delay. |
| Inhaled | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a Poison Centre or doctor/physician. Apply resuscitation if victim is not breathing - Do not use direct mouth-to-mouth method if victim ingested or inhaled the substance; use alternative respiratory method or proper respiratory device. Administer oxygen if breathing is difficult. Transport to hospital or doctor without delay. |
| Advice to Doctor | Keep victim calm and warm - Obtain immediate medical care. Ensure that attending medical personnel are aware of identity and nature of product(s) involved, and take precautions to protect themselves. Treat symptomatically. The effects may be delayed - Medical observation is indicated. |
| Medical Conditions Aggravated by Exposure | Repeated or prolonged contact with skin may cause dermatitis. |

Section 5. FIRE FIGHTING MEASURES

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| General Measures | If safe to do so, move undamaged containers from fire area. Cool container with water spray until well after fire is out. Avoid getting water inside containers. |
| Flammability Conditions | FLAMMABLE LIQUID: May be ignited by heat, sparks or flame. |
| Extinguishing Media | Use dry chemical, Carbon dioxide (CO ₂), alcohol-resistant foam or water spray for extinction - Do not use water jets. Alcohol resistant foam is the preferred firefighting medium but, if it is not available, fine water spray can be used. |
| Fire and Explosion Hazard | Risk of violent reaction or explosion: Vapours may form explosive mixtures with air. Vapours may travel to source of ignition and flash back. Most vapours are heavier than air and will collect in low or confined areas. Vapours from runoff may create an explosion hazard. Containers may explode when heated. |
| Hazardous Products of Combustion | Fire will produce irritating, toxic and/or corrosive gases, including oxides of Carbon. |
| Special Fire Fighting Instructions | Contain runoff from fire control water - Runoff may pollute waterways; Vapours from runoff may create an explosion hazard. |
| Personal Protective Equipment | Liquid-tight chemical protective clothing (splash suit) in combination with self-contained breathing apparatus (SCBA) should be used. |
| Flash Point | 39 - 43 °C [closed cup] |
| Lower Explosion Limit | 4 % |
| Upper Explosion Limit | 16 % |
| Auto Ignition Temperature | 426 - 427 °C |
| Hazchem Code | •2P |

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Section 6. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| General Response Procedure | Ensure adequate ventilation - Ventilate enclosed spaces before entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flame). All equipment used when handling the product must be earthed. Do not touch or walk through spilled material. Do not breathe vapours and prevent contact with eyes, skin and clothing. |
| Clean Up Procedures | Absorb with earth, sand or other non-combustible material. Use clean, non-sparking tools to collect material and place it in suitable containers for later disposal (see SECTION 13). |
| Containment | Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. |
| Decontamination | Neutralise residues with lime or soda ash; Wash away remainder with plenty of water. |
| Environmental Precautionary Measures | Spillages and decontamination run-off may be washed to drains with large quantities of water; Due care must however still be exercised to avoid unnecessary pollution of watercourses. |
| Evacuation Criteria | Spill or leak area should be isolated immediately. Keep unauthorised personnel away. Keep upwind and to higher ground. |
| Personal Precautionary Measures | Spill or leak area should be isolated immediately. Keep unauthorised personnel away. Keep upwind and to higher ground. Liquid-tight chemical protective clothing (splash suit) in combination with self-contained breathing apparatus (SCBA) should be used when handling leaking or damaged containers/equipment provided there is no risk of ignition. |

Section 7. HANDLING AND STORAGE

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| Handling | Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Do not breathe mist/vapours/spray and prevent contact with eyes, skin and clothing. Wear protective gloves/protective clothing/eye protection/face protection; In case of inadequate ventilation, wear respiratory protection (see SECTION 8). Keep away from heat and sources of ignition - No smoking. Ground/bond container and receiving equipment. Use explosion- proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Absorb spillage to prevent material damage. |
| Storage | Store in a cool, dry and well-ventilated place. Keep container tightly closed - check regularly for leaks. Keep away from foodstuffs and incompatible materials (oxidising agents, bases, metals). Keep away from heat and ignition sources. Store locked up. |
| Container | Keep only in the original container or in corrosive resistant container/container with a resistant inner liner. |

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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|-----------------------------|--|
| General | COMPONENT: Acetic acid (CAS No. 64-19-7): - Safe Work Australia Exposure Standard: TWA = 10 ppm (25 mg/m ³); STEL = 15 ppm (37 mg/m ³). - New Zealand WES: TWA = 10 ppm (25 mg/m ³); STEL = 15 ppm (37 mg/m ³). - NIOSH REL/OSHA PEL: TWA = 10 ppm (25 mg/m ³); STEL = 15 ppm (37 mg/m ³). - Immediately dangerous to life or health (IDLH) concentration: 50 ppm. |
| 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. Use explosion-proof electrical/ventilating/lighting equipment. |

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Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION (Continued)

| | |
|--------------------------------------|---|
| Personal Protection Equipment | <ul style="list-style-type: none">- Respiratory protection: Wear respiratory protection in case of inadequate ventilation or if an inhalation risk exists. Recommended filter type: ABE (organic vapour/inorganic vapour/acid gas) meeting the requirements of AS/NZS 1715 & AS/NZS 1716 or national equivalent.- Eye/face protection: Wear appropriate eye protection to prevent eye contact. Recommended: Chemical goggles, face-shield.- Hand protection: Wear protective gloves. Recommended: Elbow-length impervious gloves, e.g. PVC.- Skin/body protection: Wear appropriate personal protective clothing to prevent skin contact. Recommended: Overalls, splash apron or equivalent impervious (e.g. PVC) outer garment, rubber boots. |
| Special Hazard Precautions | Vapour heavier than air - prevent concentration in hollows or sumps. Do not enter confined spaces where vapour may have collected. |
| Work Hygienic Practices | Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. |

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

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| Physical State | Liquid |
| Appearance | Clear liquid |
| Odour | Pungent, vinegar-like |
| Colour | Colourless |
| pH | No Data Available |
| Vapour Pressure | 1.5 - 1.6 kPa (@ 20 °C) |
| Relative Vapour Density | 2.07 - 2.1 Air = 1 |
| Boiling Point | 105 - 118 °C |
| Melting Point | -7 - +4 °C |
| Freezing Point | -7 - +4 °C |
| Solubility | Miscible with water |
| Specific Gravity | 1.05 - 1.07 (Water = 1) |
| Flash Point | 39 - 43 °C [closed cup] |
| Auto Ignition Temp | 426 - 427 °C |
| Evaporation Rate | 0.99 BuAc = 1 |
| 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 | 60.05 |
| Net Propellant Weight | No Data Available |
| Octanol Water Coefficient | No Data Available |
| 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 information available. |
| Potential for Dust Explosion | Not applicable. |
| Fast or Intensely Burning Characteristics | No information available. |
| Flame Propagation or | No information available. |
| Burning Rate of Solid Materials | |
| Non-Flammables That Could Contribute | No information available. |
| Unusual Hazards to a Fire | |
| Properties That May Initiate or Contribute to Fire Intensity | FLAMMABLE LIQUID: May be ignited by heat, sparks or flame. |
| Reactions That Release Gases or Vapours | Fire will produce irritating, toxic and/or corrosive gases, including oxides of Carbon. |
| Release of Invisible Flammable Vapours and Gases | Attacks many metals forming flammable/explosive hydrogen gas. |

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Section 10. STABILITY AND REACTIVITY

| | |
|---|---|
| General Information | The substance is a weak acid. Reacts violently with oxidants and bases. Chemical |
| Stability | Product is considered stable; Unstable in the presence of incompatible materials. |
| Conditions to Avoid | Keep away from heat and sources of ignition. |
| Materials to Avoid | Incompatible/reactive with oxidising agents, bases, metals. Attacks some forms of plastic, rubber and coatings. |
| Hazardous Decomposition Products | Fire will produce irritating, toxic and/or corrosive gases, including oxides of Carbon. Attacks many metals forming flammable/explosive hydrogen gas. |
| Hazardous Polymerisation | Will not occur. |

Section 11. TOXICOLOGICAL INFORMATION

| | |
|----------------------------|---|
| General Information | <ul style="list-style-type: none">- Acute toxicity: Corrosive on ingestion. Inhalation of the vapour may cause lung oedema (effects may be delayed). Severe health effects have been reported (in humans) following single exposure by different routes, mainly due to the local corrosive effects of the chemical leading to systemic effects.- Skin corrosion/irritation: Corrosive to the skin. Causes severe skin burns, pain, redness, blisters.- Eye damage/irritation: Corrosive to the eyes. Causes serious eye damage, redness, pain, severe deep burns, loss of vision.- Respiratory/skin sensitisation: Repeated or prolonged contact with skin may cause dermatitis.- Germ cell mutagenicity: Not considered to be genotoxic.- Carcinogenicity: Not likely to be carcinogenic.- Reproductive toxicity: Does not show specific reproductive or developmental toxicity.- STOT (single exposure): Corrosive to the respiratory tract.- STOT (repeated exposure): The substance may have effects on the gastrointestinal tract, resulting in digestive disorders including pyrosis and constipation - These effects are not associated with any systemic findings, suggesting the effects observed could be due to its corrosive activity.- Aspiration toxicity: No information available. |
| Acute | |
| Ingestion | Acute toxicity (Oral): COMPONENT: Acetic acid (CAS No. 64-19-7): - LD50, Rats: >2,000 mg/kg bw. |
| Other | Acute toxicity (Dermal): COMPONENT: Acetic acid (CAS No. 64-19-7): - LD50, Rabbits: 1,060 mg/kg bw. |
| Inhalation | Acute toxicity (Inhalation): COMPONENT: Acetic acid (CAS No. 64-19-7): - LC50, Rats: 11.4 mg/l (4 h). |
| Carcinogen Category | None |

Section 12. ECOLOGICAL INFORMATION

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|----------------------------------|---|
| Ecotoxicity | COMPONENT: Acetic acid (CAS No. 64-19-7): - LC50, Fish: 31.3 - 67.6 mg/l (96 h). - EC50, Crustacea: 18.9 mg/l (48 h). COMPONENT: Acetic acid (CAS No. 64-19-7): |
| Persistence/Degradability | Low persistence in water/soil; Low persistence in air. |
| Mobility | COMPONENT: Acetic acid (CAS No. 64-19-7): - High mobility in soil (KOC = 1). |
| Environmental Fate | Prevent entry into drains and waterways. |
| Bioaccumulation Potential | COMPONENT: Acetic acid (CAS No. 64-19-7): - Low bioaccumulative potential (LogKOW = -17). |
| Environmental Impact | No Data Available |

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Section 13. DISPOSAL CONSIDERATIONS

| | |
|---|--|
| General Information | Recycle wherever possible. Dispose of product by neutralisation with soda-ash or soda-lime followed by burial in a land-fill specifically licensed to accept chemical and/or pharmaceutical wastes or incineration in a licensed apparatus. Decontaminate empty containers with 5 % aqueous sodium hydroxide or soda ash, followed by water. |
| Special Precautions for Landfill | Contaminated packaging: Containers may still present a chemical hazard/danger when empty. Observe all label safeguards until containers are cleaned and destroyed. |

Section 14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

| | |
|-----------------------------|---|
| Proper Shipping Name | ACETIC ACID SOLUTION, more than 80% acid, by mass |
| Class | 8 Corrosive Substances |
| Subsidiary Risk(s) | 3 Flammable Liquids |
| EPG | 19 Liquids - Flammable , Toxic And/Or Corrosive |
| UN Number | 2789 |
| Hazchem | •2P |
| Pack Group | II |
| Special Provision | No Data Available |

Sea Transport

IMDG Code

| | |
|-----------------------------|---|
| Proper Shipping Name | ACETIC ACID SOLUTION, more than 80% acid, by mass |
| Class | 8 Corrosive Substances |
| Subsidiary Risk(s) | 3 Flammable Liquids |
| UN Number | 2789 |
| Hazchem | 2P |
| Pack Group | II |
| Special Provision | No Data Available |
| EMS | F-E, S-C |
| Marine Pollutant | No |

Air Transport

IATA DGR

| | |
|-----------------------------|---|
| Proper Shipping Name | ACETIC ACID SOLUTION, more than 80% acid, by weight |
| Class | 8 Corrosive Substances |
| Subsidiary Risk(s) | 3 Flammable Liquids |
| UN Number | 2789 |
| Hazchem | 2P |
| Pack Group | II |
| Special Provision | No Data Available |

National Transport Commission (Australia)

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

| | |
|---------------------------------------|---|
| Dangerous Goods Classification | Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code) |
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Section 15. REGULATORY INFORMATION

| | |
|--------------------------------|--|
| General Information | ACETIC ACID (excluding its salts and derivatives) and preparations containing more than 80 % of acetic acid for therapeutic use, is listed in SCHEDULE 2 of the SUSMP. |
| Poisons Schedule (Aust) | Schedule 6 |

National/Regional Inventories

| | |
|-------------------------|--------|
| Australia (AICS) | Listed |
|-------------------------|--------|

Section 16. OTHER INFORMATION

Always use product as directed. Please read all labels carefully before using product. Further information may be obtained by contacting the Technical Officer on 0267 696 658. Supplied by Colonial Chemicals Australia.

| | |
|-----------------------------|--|
| SDS Revision Number: | 3 |
| SDS Revision Date: | 12 October 2016 |
| Reason for issue: | Creation SDS (Replaces SDS version 2 Dated 07/08/2013) <i>In any event, the review and, if necessary, the re-issue of a SDS shall be no longer than 5 years after the last date of issue.</i> |

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product.

Key legend/Abbreviations/Acronyms that may be used in this S.D.S.:

| | |
|--------------------|---|
| < | Less Than |
| > | Greater Than |
| ADG Code | Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition) |
| AICS | Australian Inventory of Chemical Substances |
| atm | Atmosphere |
| CAS | Chemical Abstracts Service (Registry Number) |
| cm ² | Square Centimetres |
| CO ₂ | Carbon Dioxide |
| COD | Chemical Oxygen Demand |
| deg C (°C) | Degrees Celcius |
| deg F (°F) | Degrees Farenheit |
| EPA (New Zealand) | Environmental Protection Authority of New Zealand |
| g | Grams |
| g/cm ³ | Grams per Cubic Centimetre |
| g/l | Grams per Litre |
| Hazchem Code | Emergency action code of numbers and letters that provide information to emergency services especially |
| firefighters HSNO | Hazardous Substance and New Organism |
| IDLH | Immediately Dangerous to Life and Health |
| immiscible | Liquids are insoluble in each other. inHg |
| inHg | Inch of Mercury |
| inH ₂ O | Inch of Water |
| K | Kelvin |
| kg | Kilogram |
| kg/m ³ | Kilograms per Cubic Metre |
| lb | Pound |
| 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. |
| 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 |
| m ³ | Cubic Metre |
| mbar | Millibar |
| mg | Milligram |
| mg/24H | Milligrams per 24 Hours |
| mg/kg | Milligrams per Kilogram |
| mg/m ³ | Milligrams per Cubic Metre |
| Misc or Miscible | Liquids form one homogeneous liquid phase regardless of the amount of either component present |
| mm | Millimetre |
| mmH ₂ O | 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 |
| Pa | Pascal |
| PEL | Permissible Exposure Limit |
| pH | relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline). |

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Section 16. OTHER INFORMATION (Continued)

| | |
|--------|---|
| ppb | Parts perBillion |
| ppm | Parts perMillion |
| ppm/2h | Parts per Million per 2Hours |
| ppm/6h | Parts per Million per 6Hours |
| psi | Pounds per SquareInch |
| R | Rankine |
| RCP | Reciprocal Calculation Procedure |
| SDS | Safety DataSheet |
| STEL | Short TermExposure Limit |
| TLV | Threshold LimitValue |
| tn | Tonne |
| TWA | Time Weighted Average (TWA/ES - Time Weighted Average or Exposure Standard) |
| Ug/24 | Micrograms per 24 Hours |
| UN | United Nations |
| Wt | Weight |

END OF SDS

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