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## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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### 1.1 Product identifier

**Product name** IDCIDE-20

**Synonyms** IDCIDE 20

### 1.2 Uses and uses advised against

**Uses** BIOCIDES • DRILLING FLUID ADDITIVE • WATER TREATMENT

### 1.3 Details of the supplier of the product

**Supplier name** NEWPARK DRILLING FLUIDS (AUSTRALIA) LTD

**Address** 11 Alacrity Place, Henderson, WA, 6166, AUSTRALIA

**Telephone** +61 8 9410 8200

**Fax** +61 8 9410 8299

**Website** <http://www.newpark.com>

### 1.4 Emergency telephone numbers

**Emergency** 1800 127 406 (Australia); +64 4 917 9888 (International)

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## 2. HAZARDS IDENTIFICATION

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### 2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

#### Physical Hazards

Not classified as a Physical Hazard

#### Health Hazards

Acute Toxicity: Oral: Category 4

Skin Corrosion/Irritation: Category 2

Skin Sensitisation: Category 1

Serious Eye Damage / Eye Irritation: Category 2A

#### Environmental Hazards

Not classified as an Environmental Hazard

### 2.2 GHS Label elements

**Signal word** WARNING

**Pictograms**



#### Hazard statements

H302

Harmful if swallowed.

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H319

Causes serious eye irritation.

**PRODUCT NAME IDCIDE-20****Prevention statements**

|      |   |
|------|---|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray.   |
| P264 | Wash thoroughly after handling.   |
| P270 | Do not eat, drink or smoke when using this product.   |
| P272 | Contaminated work clothing should not be allowed out of the workplace.                        |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |

**Response statements**

|                    |  |
|--------------------|--|
| P301 + P312        | IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.   |
| 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. |
| P321               | Specific treatment is advised - see first aid instructions.  |
| P330               | Rinse mouth.   |
| P333 + P313        | If skin irritation or rash occurs: Get medical advice/attention.   |
| P362 + P364        | Take off contaminated clothing and wash it before reuse.   |

**Storage statements**

None allocated.

**Disposal statements**

P501 Dispose of contents/container in accordance with relevant regulations.

**2.3 Other hazards**

No information provided.

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**3. COMPOSITION/ INFORMATION ON INGREDIENTS**

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**3.1 Substances / Mixtures**

| Ingredient                                       | CAS Number | EC Number | Content   |
|--|------------|-----------|-----------|
| TETRAKIS(HYDROXYMETHYL)PHOSPHONIUM SULPHATE(2:1) | 55566-30-8 | 259-709-0 | 18 to 25% |
| WATER  | 7732-18-5  | 231-791-2 | Remainder |

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**4. FIRST AID MEASURES**

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**4.1 Description of first aid measures**

|                             |  |
|-----------------------------|--|
| <b>Eye</b>                  | If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.                       |
| <b>Inhalation</b>           | If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing. |
| <b>Skin</b>                 | If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.       |
| <b>Ingestion</b>            | For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).   |
| <b>First aid facilities</b> | Eye wash facilities should be available.   |

**4.2 Most important symptoms and effects, both acute and delayed**

See Section 11 for more detailed information on health effects and symptoms.

**4.3 Immediate medical attention and special treatment needed**

Treat symptomatically.

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**5. FIRE FIGHTING MEASURES**

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**5.1 Extinguishing media**

Use an extinguishing agent suitable for the surrounding fire.

**5.2 Special hazards arising from the substance or mixture**

Non flammable. May evolve carbon oxides and hydrocarbons when heated to decomposition. May evolve carbon oxides, sulphur oxides and phosphates when heated to decomposition.

### **5.3 Advice for firefighters**

Treat as per requirements for surrounding fires. Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

### **5.4 Hazchem code**

None allocated.

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## **6. ACCIDENTAL RELEASE MEASURES**

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

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

### **6.2 Environmental precautions**

Prevent product from entering drains and waterways.

### **6.3 Methods of cleaning up**

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

### **6.4 Reference to other sections**

See Sections 8 and 13 for exposure controls and disposal.

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## **7. HANDLING AND STORAGE**

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### **7.1 Precautions for safe handling**

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

### **7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should have appropriate ventilation systems.

### **7.3 Specific end uses**

No information provided.

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## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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### **8.1 Control parameters**

#### **Exposure standards**

No exposure standards have been entered for this product.

#### **Biological limits**

No biological limit values have been entered for this product.

### **8.2 Exposure controls**

**Engineering controls** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended.

#### **PPE**

|                    |   |
|--------------------|---|
| <b>Eye / Face</b>  | Wear splash-proof goggles.  |
| <b>Hands</b>       | Wear PVC or rubber gloves.  |
| <b>Body</b>        | Wear coveralls. In a laboratory situation, wear a laboratory coat.          |
| <b>Respiratory</b> | Where an inhalation risk exists, wear a Type A (Organic vapour) respirator. |



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|                           |                                  |
|---------------------------|----------------------------------|
| Appearance                | COLOURLESS TO PALE YELLOW LIQUID |
| Odour                     | SLIGHT ODOUR                     |
| Flammability              | NON FLAMMABLE                    |
| Flash point               | NOT RELEVANT                     |
| Boiling point             | > 100°C                          |
| Melting point             | < 0°C                            |
| Evaporation rate          | AS FOR WATER                     |
| pH                        | 3.0 to 3.5                       |
| Vapour density            | NOT AVAILABLE                    |
| Relative density          | 1.08                             |
| Solubility (water)        | SOLUBLE                          |
| Vapour pressure           | 18 mm Hg @ 20°C                  |
| Upper explosion limit     | NOT RELEVANT                     |
| Lower explosion limit     | NOT RELEVANT                     |
| Partition coefficient     | NOT AVAILABLE                    |
| Autoignition temperature  | NOT AVAILABLE                    |
| Decomposition temperature | NOT AVAILABLE                    |
| Viscosity                 | NOT AVAILABLE                    |
| Explosive properties      | NOT AVAILABLE                    |
| Oxidising properties      | NOT AVAILABLE                    |
| Odour threshold           | NOT AVAILABLE                    |

### 9.2 Other information

|             |                |
|-------------|----------------|
| % Volatiles | > 60 % (Water) |
|-------------|----------------|

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

### 10.2 Chemical stability

Stable under recommended conditions of storage.

### 10.3 Possibility of hazardous reactions

Polymerization is not expected to occur.

### 10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

### 10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid), heat and ignition sources.

### 10.6 Hazardous decomposition products

May evolve carbon oxides and hydrocarbons when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity Harmful if swallowed.

#### Information available for the ingredients:

| Ingredient                                       | Oral LD50       | Dermal LD50        | Inhalation LC50     |
|--|-----------------|--------------------|---------------------|
| TETRAKIS(HYDROXYMETHYL)PHOSPHONIUM SULPHATE(2:1) | 248 mg/kg (rat) | > 2000 mg/kg (rat) | 5.5 mg/L/4hrs (rat) |

#### Additional ingredient toxicity values:

TETRAKIS(HYDROXYMETHYL)PHOSPHONIUM SULPHATE(2:1) (55566-30-8)  
 TDLo (oral) 650 mg/kg/13 weeks - intermittent (rat)

Skin Contact may result in irritation, redness, pain and rash.

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|                                 |  |
|---------------------------------|--|
| <b>Eye</b>                      | Contact may result in irritation, lacrimation, pain and redness.                                 |
| <b>Sensitisation</b>            | May cause an allergic skin reaction. This product is not classified as a respiratory sensitiser. |
| <b>Mutagenicity</b>             | Not classified as a mutagen.   |
| <b>Carcinogenicity</b>          | Not classified as a carcinogen.  |
| <b>Reproductive</b>             | Not classified as a reproductive toxin.  |
| <b>STOT - single exposure</b>   | Over exposure may result in respiratory irritation, nausea, dizziness, drowsiness and headache.  |
| <b>STOT - repeated exposure</b> | Not classified as causing organ damage from repeated exposure.                                   |
| <b>Aspiration</b>               | Not classified as causing aspiration.  |

**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

75% TETRAKIS(HYDROXYMETHYL)PHOSPHONIUM SULPHATE (55566-30-8):

LC50 (Rainbow Trout) = 119 mg/L/96 hr  
 LC50(Bluegill Sunfish) = 93 mg/L/ 96 hr  
 EC50 (Daphnia Magna) = 19 mg/L/48 hr  
 LC50 (Brown Shrimp) = 340 mg/L/96 hr  
 LC50 (Mysid Shrimp ) = 9.5 mg/L/96 hr  
 LC50 (Sheepshead Minnow) = 94 mg/L/96 hr  
 LC50 (Jevenile Plaice) = 86 mg/L/96 hr

Waste Water management  
 EC50 (Activated Sludge) = 24 mg/L/3 hr

**12.2 Persistence and degradability**

This product is readily biodegradable.

**12.3 Bioaccumulative potential**

No information provided.

**12.4 Mobility in soil**

No information provided.

**12.5 Other adverse effects**

No information provided.

**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

**Waste disposal** For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site. For large quantities, contact the manufacturer/supplier for additional information. Prevent contamination of drains and waterways as aquatic life may be threatened and environmental damage may result.

**Legislation** Dispose of in accordance with relevant local legislation.

**14. TRANSPORT INFORMATION**

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

|                                    | LAND TRANSPORT (ADG) | SEA TRANSPORT (IMDG / IMO) | AIR TRANSPORT (IATA / ICAO) |
|------------------------------------|----------------------|----------------------------|-----------------------------|
| <b>14.1 UN Number</b>              | None allocated.      | None allocated.            | None allocated.             |
| <b>14.2 Proper Shipping Name</b>   | None allocated.      | None allocated.            | None allocated.             |
| <b>14.3 Transport hazard class</b> | None allocated.      | None allocated.            | None allocated.             |
| <b>14.4 Packing Group</b>          | None allocated.      | None allocated.            | None allocated.             |

**14.5 Environmental hazards**

No information provided.

**14.6 Special precautions for user**

Hazchem code None allocated.

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**15. REGULATORY INFORMATION**

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**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

|                           |   |
|---------------------------|---|
| <b>Poison schedule</b>    | A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP). |
| <b>Classifications</b>    | Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals (GHS Revision 7).                    |
| <b>Inventory listings</b> | <b>AUSTRALIA: AICC (Australian Inventory of Industrial Chemicals)</b><br>All components are listed on AICC, or are exempt.                                      |

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**16. OTHER INFORMATION**

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**Additional information**      RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**Abbreviations**

|                   |   |
|-------------------|---|
| ACGIH             | American Conference of Governmental Industrial Hygienists                                       |
| CAS #             | Chemical Abstract Service number - used to uniquely identify chemical compounds                 |
| CNS               | Central Nervous System  |
| EC No.            | EC No - European Community Number   |
| EMS               | Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)                   |
| GHS               | Globally Harmonized System  |
| GTEPG             | Group Text Emergency Procedure Guide  |
| IARC              | International Agency for Research on Cancer   |
| LC50              | Lethal Concentration, 50% / Median Lethal Concentration   |
| LD50              | Lethal Dose, 50% / Median Lethal Dose   |
| mg/m <sup>3</sup> | Milligrams per Cubic Metre  |
| OEL               | Occupational Exposure Limit   |
| pH                | relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline). |
| ppm               | Parts Per Million   |
| STEL              | Short-Term Exposure Limit   |
| STOT-RE           | Specific target organ toxicity (repeated exposure)  |
| STOT-SE           | Specific target organ toxicity (single exposure)  |
| SUSMP             | Standard for the Uniform Scheduling of Medicines and Poisons                                    |
| SWA               | Safe Work Australia   |
| TLV               | Threshold Limit Value   |
| TWA               | Time Weighted Average   |

**PRODUCT NAME IDCIDE-20**

**Report status**

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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