

Material Safety Data Sheet

(Produced M.S.D.S)

1. Product and Company Identification

| | |
|------------------------------------|--|
| A. Product Name | Dr.Clo For Refrigerator |
| B. Restrictions on recommendations | |
| Products Recommended Use | Not applicable |
| Product Usage restrictions | Not applicable |
| C. Manufacturer | |
| Company Name | NON CO ,. Ltd. |
| Address | 201, Daehak-ro, Chubu-myeon, Geumsan-gun, Chungcheongnam-do, Academic Cooperation 302-1, 32713 Korea |
| Emergency phone | +82-41-752-4147 |

2. Hazards Identification

| | |
|---|----------------|
| A. Hazardous Risk classification | Not applicable |
| B. GHS label elements, including | |
| precautionary statements | |
| Pictograph | Not applicable |
| Neologisms | |
| Hazard statement | Not applicable |
| Precautionary Statements | Not applicable |
| Prevention | Not applicable |
| Response | Not applicable |
| Storage | Not applicable |
| Dispose | Not applicable |
| C. National Fire Protection Association(NFPA) | |
| Health | 0 |
| Fire | 0 |
| Reactivity | 0 |

3. COMPOSITION

Substance 1

| | |
|----------------|----------------------------------|
| Substance Name | water |
| Synonym | Distilled Dater, Deionized Water |
| CAS No. | 7732-18-5 |
| Content(%) | less than 88.5% |

Substance 2

| | |
|----------------|--------------|
| Substance Name | Gelatine |
| Synonym | Gelatins |
| CAS No. | 9000-70-8 |
| Content(%) | less than 8% |

Substance 3

| | |
|----------------|-----------------|
| Substance Name | Sodium chlorite |
|----------------|-----------------|

| | |
|------------|-----------------|
| Synonym | Sodium chlorite |
| CAS No. | 7758-192 |
| Content(%) | less than 1% |

Substance 4

| | |
|----------------|----------------|
| Substance Name | Citric acid |
| Synonym | Citric acid |
| CAS No. | 77-92-9 |
| Content(%) | less than 0.9% |

Substance 5

| | |
|----------------|----------------|
| Substance Name | Trade Secret |
| Synonym | |
| CAS No. | Trade Secret |
| Content(%) | less than 1.2% |

Substance 6

| | |
|----------------|----------------|
| Substance Name | Trade Secret |
| Synonym | |
| CAS No. | Trade Secret |
| Content(%) | less than 0.4% |

4. First Aid Measures

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| A, Eyes | Immediately flush eyes while holding eyelid open, with water for at least 20 minutes. Seek medical attention if irritation persists. |
| B, Skin | Remove contaminated clothing and launder before wearing. Wash exposed skin with soap and water (waterless hand cleaner may be used if clean water is not readily available). Seek medical attention if irritation persists. |
| C. Inhalation | Ensure your own safety and use the appropriate respiratory protection to immediately remove the victim to an area free of contaminants. Give CPR or artificial respiration as needed and give oxygen if breathing is difficult. Keep victim at rest and get immediate medical attention. |
| D. Ingestion | Do not induce vomiting because of the danger of aspiration of liquids into the lungs. Obtain immediate medical attention. |
| E. Notes to physician | Medical staff know about the substance protection please |

5. Fire Fighting Measures

| | |
|------------------------|---|
| A. EXTINGUISHING MEDIA | SUITABLE: Extinguishing powder, carbon dioxide, regular |
|------------------------|---|

| | |
|--|---|
| | foam |
| | UNSUITABLE: Not applicable |
| | Small Fires: Keep dry chemical fire extinguishers available. |
| | Large Fires: Use extinguishing agent suitable for surrounding fire. |
| B. HAZARDOUS COMBUSTION PRODUCTS | Will not support combustion. |
| Thermal decomposition | Not have smoke emission. |
| FIRE & EXPLOSION HAZARDS | Rarely considered as a fire hazard. |
| C. Wear protective equipment during fire fighting operations | Please move your risk in the topic area. |
| | Please note that during high heat potentially explosive. |
| | Watch out for substance itself inhalation. |

6. Accidental Release Measures

| | |
|---|---|
| A. Precautions, protective equipment and emergency humans | ACTIVATE SITE SPECIFIC EMERGENCY RESPONSE PLAN, IF AVAILABLE. CALL Emergency Response Activation Telephone Number. Keep unauthorized personnel away and stay upwind. Protect bodies of water by dyking, if possible. |
| B. Measures to Protect the Environment | Not applicable |
| C. Methods for cleaning up | Not applicable |

7. Handling and Storage

| | |
|-------------------------|--|
| A. HANDLING PRECAUTIONS | Wash thoroughly after handling. DO NOT drink or siphon by mouth. |
| B. STORAGE PRECAUTIONS | Outside storage is recommended. Please pay attention to the temperature. Please note that materials and conditions to avoid. |

8. Exposure Controls / Personal Protection

| | |
|--|---|
| A. Exposure of the chemical and biological exposure limits, etc. | |
| Domestic regulation | No relevant data |
| ACGIH Provision | No relevant data |
| Biologically exposure limits | Not applicable |
| B. ENGINEERING CONTROLS | Ensure your own safety and use the appropriate respiratory protection. Showers and/or eyewash fountains should be provided within the immediate work area for emergency use when there is any possibility of liquids splashing. |
| A. PERSONAL PROTECTIVE EQUIPMENT | |
| Eye/Face Protection | Wear safety glasses with side shields when handling this product. |
| Respiratory Protection | Respiratory protection is not anticipated. |
| Skin Protection | Avoid skin contact. |

9. Physical and Chemical Properties

| | |
|---|-------------------|
| A. Appearance | |
| Shaped | Solid + liquid |
| Colors | Transparent |
| B. Odor | Odorless |
| A. Odor Threshold | Not applicable |
| B. pH | 5~8 |
| C. Melting / freezing point | -2°C |
| D. Initial boiling point and boiling range | 85~100°C |
| E. Flash point | Not applicable |
| F. Evaporation rate | Not relevant data |
| G. Flammability (solid, gas) | Not relevant data |
| H. Upper/lower flammability or explosive limits | Not applicable |
| I. Vapour pressure | Not applicable |
| J. Solubility | Not relevant data |
| K. Vapor Density | Not applicable |
| L. Specific gravity | 1.0 to 1.2 |
| M. n-octanol/water partition coefficient | Not applicable |
| N. Auto-ignition temperature | Not applicable |
| O. Decomposition Temperature | Not applicable |
| P. Viscosity | Not applicable |
| Q. Molecular Weight | Not applicable |

10. Stability and Reactivity

| | |
|-------------------------------------|---|
| A. STABILITY | Stable |
| B. CONDITIONS TO AVOID (STABILITY) | Material is stable under normal conditions. |
| C. INCOMPATIBLE MATERIALS | Not applicable. |
| D. HAZARDOUS DECOMPOSITION PRODUCTS | Not applicable. |
| HAZARDOUS POLYMERIZATION | Will Not Occur. |

11. Toxicological Information

| | |
|---|-------------------|
| A. Information on the likely routes of exposure | Not applicable. |
| B. Health Hazard Information | |
| Acute toxicity | Not relevant data |
| An oral | Not relevant data |
| Skin | Not relevant data |
| Suction | Not relevant data |
| Skin corrosive or irritant | Not applicable. |

| | |
|---|-------------------|
| Serious eye damage or irritation | Not applicable. |
| Respiratory sensitization | Not applicable. |
| Skin sensitization | Not applicable. |
| Carcinogenic | |
| Occupational Health and Safety Act | Not relevant data |
| Ministry of Employment and Labor | Not relevant data |
| IARC | Not relevant data |
| OSHA | Not relevant data |
| ACGIH | Not relevant data |
| NTP | Not relevant data |
| EU CLP | Not relevant data |
| Germ cell mutagenicity | Not applicable. |
| Reproductive toxicity | Not applicable. |
| Specific target organ toxicity (single exposure) | Not applicable. |
| Specific organ toxicity (repeated exposure) | Not applicable. |
| Aspiration hazard | Not applicable. |

12. Ecological Information

| | |
|----------------------------------|-------------------|
| A. Ecotoxicological | |
| Fishes | Not relevant data |
| Crustacea | Not relevant data |
| Algae | Not relevant data |
| B. Persistence and degradability | |
| Residues | Not relevant data |
| Degradability | Not relevant data |
| C. Bioaccumulative | |
| Enriched | Not relevant data |
| Biodegradable | Not relevant data |
| D. Mobility in soil | Not relevant data |
| E. Other adverse effects | Not relevant data |

13. Disposal Considerations

| | |
|----------------------------|--|
| A. Disposal methods | Dispose of contents and containers in accordance with the Waste Management Act Provision |
| B. Disposal considerations | Please consider the notes specified in Provision on waste management |

14. Transport Information

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|---------------------------|---------------------------------|
| A. UN No. | UN transport hazard class: None |
| B. PROPER SHIPPING NAME | Not applicable. |
| C. Transport hazard class | Not applicable. |
| D. Packing group | Not applicable. |
| E. Marine contaminants | Not applicable. |
| Fire emergency | Not applicable. |
| Spills emergency response | Not applicable. |

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|---|-----------------|
| USA management information (EPCRA 313 Regulation) | Not applicable. |
| USA management information (Rotterdam Convention material) | Not applicable. |
| USA management information (Stockholm Convention material) | Not applicable. |
| USA management information (Montreal Protocol substances) | Not applicable. |
| EU classification information (Classification) | Not applicable. |
| EU classification information (risk phrases) | Not applicable. |
| EU classification information (Safety phrases) | Not applicable. |

15. Other Information

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| A. The source of the displayed data | Korea Industrial Complex Material Safety Data Sheet, chemical products Dictionary, National Institute of Environmental Research Chemical Information Systems, National Emergency Management Agency Hazardous Materials Information Management System |
| B. First Date | October 18, 2019 |
| C. Revision number and date of last revision | |
| Revision number | 0 |
| Revision Date | 0 |
| D. Others | |