



HD-1820-CNA

HARDEX ANTIVIRAL DISINFECTANT SOLUTION (CONCENTRATE NON-ALCOHOL)-20L

SECTION I: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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| Trade Name: | Hardex Antiviral Disinfectant Solution (Concentrate Non-Alcohol)-20L |
| Manufacturer's Product Code: | HD-1820-CNA |
| Use(s): | Disinfection Use |
| Manufacturer/Supplier: | Hardex Corporation Sdn. Bhd. |
| Address: | No. 2A, Jalan IM 3/6, Kawasan Perindustrian IM 3, Indera Mahkota, 25200 Kuantan, Pahang Darul Makmur, Malaysia. |
| Telephone Number: | +609-5721063/1064/1065 |
| Fax: | +609-5721066 |
| Email: | info@hardexworld.com |
| Website: | http://www.hardexworld.com |
| Emergency Telephone Number: | +609-5721063 (24 hours) |

SECTION II: HAZARD IDENTIFICATION

Classification of the Hazardous Chemical: Serious eye damage/eye irritation Category 1
Hazardous to the Aquatic Environment –
Chronic Hazard Category 3



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| Label Element: | |
| Signal Word: | Danger |
| Hazard Statement: | H318 Causes serious eye damage H412 Harmful to aquatic life with long lasting effects |

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| Precautionary Statement Prevention: | P280 Wear eye protection/face protection. P273 Avoid release to the environment. |
| Precautionary Statement Response: | P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/ physician. |
| Precautionary Statement Storage: | No precautionary statement. |
| Precautionary Statement Disposal: | P501 Dispose of contents/container in accordance with the Environmental Quality (Scheduled Wastes) Regulations or other guidelines issuances by DOE and/local authorities. |

SECTION III: COMPOSITION AND INFORMATION ON INGREDIENTS

| Chemical Name | CAS No. | Concentration (%) | Classification |
|-----------------------|--------------|-------------------|--|
| Water | 7732-18-5 | >60 | Not Classified |
| Surfactant | Confidential | 3 to <5 | Acute Tox. 4 (Oral) Skin Irrit. 2 Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 2 |
| Benzalkonium Chloride | 8001-54-5 | <1 | Acute Tox. 4 (Oral) Acute Tox. 4 (Dermal) Acute Tox. 4 (Vapor) Skin Corr. 1 Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 1 |
| Additive | Confidential | <1 | Not Classified |

SECTION IV: FIRST AID MEASURES

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| General Advice | : Move victim from the contaminated workplace to ventilated place. Call the hospital for medical assistance and provide emergency treatment. |
| If inhaled | : If inhaled, remove to fresh air. Get medical attention if symptoms occur. |

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| In Case of Skin Contact | : Wash with water and soap as a precaution. Get medical attention if symptoms occur. |
| In Case of Eye Contact | : Immediately flush eyes with water for at least 15 minutes. In case of eye irritation, seek medical attention. |
| If Swallowed | : DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water. |
| Most Important Symptoms and Effects, Both Acute and Delayed | : None known. |
| Protection of First-Aiders | : No special precautions are necessary for first aid responders. |
| Note to Physician | : Treat symptomatically and supportively. |

SECTION V: FIRE-FIGHTING MEASURES

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| Suitable Extinguishing Media: | Water fog Alcohol-resistant foam Carbon dioxide (CO ₂) Dry chemical |
| Unsuitable Extinguishing Media: | High-pressure water jet |
| Specific Extinguishing Methods: | Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Special Protective Equipment for Firefighters: | Wear self-contained breathing apparatus for firefighting if necessary. |

SECTION VI: ACCIDENTAL RELEASE MEASURE

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| Personal Precautions, Protective Equipment and Emergency Procedures | : Follow safe handling advice and personal protective equipment recommendations. |
| Environmental Precautions | : Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained. |
| Methods and Materials for Containment and Cleaning Up | : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. For large spills, provide dyking or other appropriate |

containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.

Clean up remaining materials from spill with suitable absorbent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the clean-up of releases. You will need to determine which regulations are applicable.

Section XIII and XV of this SDS provide information regarding certain local or national requirements.

SECTION VII: SAFE HANDLING AND STORAGE

Handling

Advice on Safe Handling: Wear appropriate protective clothing and safety eyewear. Ensure adequate ventilation. Wash thoroughly after handling.

Storage

Conditions for Safe Storage: Keep out of reach of children. Keep container in a cool and dry area. Avoid exposure to direct sunlight and air (moisture). Do not store above the following temperature: 40 °C. It is not advisable to store for more than a year.

SECTION VIII: EXPOSURE CONTROL AND PERSONAL PROTECTION

Personal Protective Equipment

Eye/Face Protection: Wear safety goggles.

Skin and Body Protection: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing (e.g. gloves, aprons, boots, etc).

Hand Protection

Remarks: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Respiratory Protection: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter Type: Combined particulates and organic vapour type.

Hygiene Measures: Wash hand before breaks and at the end of workday.

Note: These precautions are for room temperature handling.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

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| Appearance: | Liquid |
| Colour: | Clear |
| Odour: | Lemon Fragrant |
| Odour Threshold: | No data available |
| pH: | 7 – 8 |
| Melting Point/Freezing Point: | No data available |
| Flash Point: | No data available |
| Evaporation Rate: | No data available |
| Flammability (solid, gas): | No data available |
| Upper Explosive Limit: | No data available |
| Lower Explosive Limit: | No data available |
| Vapour Pressure: | No data available |
| Vapour Density: | No data available |
| Specific Gravity: | 1.00 ±0.05 |
| Solubility(ies) | |
| Water Solubility: | Soluble |
| Partition Coefficient: | |
| n-Octanol/Water: | No data available |
| Auto-Ignition Temperature: | No data available |
| Decomposition Temperature: | No data available |
| Viscosity (Dynamic): | No data available |

SECTION X: STABILITY AND REACTIVITY

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| Reactivity | : Not classified as a reactivity hazard. |
| Chemical Stability | : Stable under normal conditions. |
| Possibility of Hazardous Reactions | : No decomposition if stored and applied as directed. |
| Conditions to Avoid | : No data available. |
| Incompatible Materials | : No data available. |
| Hazardous Decomposition Products | : No data available. |

SECTION XI: TOXICOLOGICAL INFORMATION

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| Acute Oral Toxicity: | No data available. |
| Acute Dermal Toxicity: | No data available. |
| Acute Inhalation Toxicity (Dust/Mist): | No data available. |
| Skin Corrosion/Irritation: | No data available. |
| Serious Eye Damage/Eye Irritation: | Causes serious eye damage |
| Respiratory or skin Sensitization: | No data available. |
| Germ Cell Mutagenicity: | No data available. |
| Carcinogenicity: | No data available. |
| Reproductive Toxicity: | No data available. |
| STOT Single Exposure: | No data available. |
| STOT Repeated Exposure: | No data available. |
| Aspiration Hazard: | No data available. |

SECTION XII: ECOLOGICAL INFORMATION**Environmental Fate and Distribution:**

No adverse effects are predicted.

Environmental Effects:

No adverse effects on aquatic organisms are predicted.

Bioaccumulation: No bioaccumulation potential.

Fate and Effects in Waste Water Treatment Plants:

No adverse effects on bacteria are predicted.

SECTION XIII: DISPOSAL INFORMATION**Disposal Methods**

Waste from Residues: Disposal of waste to be in accordance with the Environmental Quality (Scheduled Wastes) Regulations and other guidelines issuance by DOE and/local authorities.

Contaminated Packaging: Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION XIV: TRANSPORTATION INFORMATION**International Regulation****UNRTDG**

Not regulated as a dangerous good.

IATA-DGR

Not regulated as a dangerous good.

IMDG-Code

Not regulated as a dangerous good.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

SECTION XV: REGULATORY INFORMATION

Safety, Health and Environmental Regulations Specific for the Hazardous Chemical

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

Occupational Safety and Health (Use and Standards of Exposure of Chemical Hazardous to Health) Regulations 2000.

Environmental Quality (Scheduled Waste) Regulations 2005

SECTION XVI: OTHER INFORMATIONS

REFERENCES

- 1) ECHA database on registered substances.
- 2) **Book: Protecting The Ozone Layer: Malaysia Implementing The Montreal Protocol by the United Nations Development Programme (UNDP), Malaysia.**

WARRANTY

The information and data contained herein is believed to be accurate and reliable: however, it is the user's responsibility to determined suitability of use. Since the supplier cannot know all the uses or the conditions of use to which this product may be put, no warranties concerning fitness or suitability for a particular use or purpose are made. The supplier warrants only that its products will meet its specifications. There is not a warranty of merchantability or fitness for use, nor any other express or implied warranty. The user's exclusive remedy and supplier's sole liability is limited to refund of the purchase price or replacement of any product shown to be otherwise than was warranted.

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