

SDS Report

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Applicant : ALPHA ADVANCED TECHNOLOGIES, CO., LTD.
Address : G/F 631-633 RECLAMATION ST., MONGKOK, KOWLOON, HONG KONG

Below information submitted by the applicant:

Name : UBET 3D Disinfection Tablet
Model : /
Model may cover : /
Reference info. : /
Manufacturer info. : /
Supplier info. : /
Buyer info. : /
Destination : /
Original : China

Sample Received : 04.21, 2020
Test Period : 04.21, 2020 - 04.26, 2020
Test Requirement : Please refer to next page(s).
Test Method : Please refer to next page(s).
Test Result : Please refer to next page(s).
Test Conclusion : Please refer to next page(s).

| Result Summary | Test Items | Verdict |
|----------------|---|---------------|
| | 1. Material Safety Data Sheet for the submitted samples in according to GHS Rev.3 and European Regulation No.1272/2008, No.1907/2006 and its amendments | Refer to next |

Jerry Zhao, Technical Director
Signed for and on behalf of
TUV THURINGEN SHANGHAI CO., LTD.
Shanghai

G/F 631-633 RECLAMATION ST., MONGKOK, KOWLOON, HONG KONG

Prepared

2020.04.22

According to GHS Rev.3 and European Regulation No.1272/2008, No.1907/2006 and its amendments

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Section 1 Identification of the substance/ mixture and of the company/ undertaking

1.1 Product identifier

| | |
|--------------------|-----------------------------|
| Product form | Preparation |
| Product Name | UBET 3D Disinfection Tablet |
| Model/Type | / |
| Model may cover | / |
| CAS No. | Refer to section 3 |
| Type of product | Tablet |
| Chemical structure | Refer to section 3 |
| Synonyms | / |
| Product group | Preparation |

1.2.1 Relevant identified uses

| | |
|--------------------------------|---|
| Main use category | Disinfectant |
| Use of the substance / article | For more detail information, see technical data sheet |

1.2.2 Uses advised against

No additional information available

1.3 Details of the supplier of safety data sheet

| | |
|------------------------|--|
| Manufacturer/ supplier | ALPHA ADVANCED TECHNOLOGIES, CO., LTD. G/F 631-633 RECLAMATION ST., MONGKOK, KOWLOON, HONG KONG |
| TEL | +852 2748-1066 |
| E-mail | info@aat-hk.com |

1.4 Emergency telephone number TEL 400-108-UBET(8238)

Section 2 Hazards identification

2.1 Classification of the substances or mixture

The preparation is considered as hazardous substance in acc. to European Commission Regulation No.1935/2004, based on the formulation information provided by the applicant.

2.2 Label elements

Pictogram



Signal word Warning

Hazard statement(s) May be harmful if absorbed through skin or swallowed. Contains material that may cause target organ damage, based on animal data.

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2.3 Precautionary Statements

Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling. Do not breathe dust.

2.4 Hazards not otherwise classified

No information available.

2.5 Environmental hazards:

No information available

2.6 Other hazards

Results of PBT and vPvB assessment No PBT or vPvB substances used.

Section 3 Composition/ information on ingredients

3.1 Substance

Not substances, preparation

3.2 Composition

| Name | CAS No. | EC No. | Concentration, % |
|----------------------------|-----------|-----------|------------------|
| Sodium chlorite | 7758-19-2 | 231-836-6 | 2-10 |
| Citric acid | 77-92-9 | 201-069-1 | 2-10 |
| Microcrystalline cellulose | 9004-34-6 | 232-674-9 | 20-40 |
| Sodium sulfate | 7757-82-6 | 231-820-9 | 10-30 |
| Magnesium sulfate | 7487-88-9 | 231-298-2 | 10-30 |
| Sodium carbonate | 497-19-8 | 207-838-8 | 15-40 |

Section 4 First-aid measures

4.1 Description of first aid measures

| | |
|-------------------------|---|
| General advice | In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice. |
| If inhaled | Move exposed person to breathe fresh air. Get medical attention if symptoms persist. |
| In case of skin contact | In case of contact, immediately flush skin with plenty of water for at least 10 minutes. Get medical attention if symptoms persist. |
| In case of eye contact | Immediately flush eyes with plenty of water for at least 10 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms persist. |
| If swallowing | Wash out mouth with water. Get medical attention if symptoms persist. |

4.2 Most important symptoms and effects, both acute and delayed Rescuer should wear an appropriate mask or self-contained breathing apparatus.

4.3 Indication of any immediate medical attention and special No specific treatment. Contact poison treatment specialist if large quantities have been ingested or inhaled.



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treatment needed

Section 5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire

Unsuitable extinguishing media None known

5.2 Special hazards arising from the substance or mixture

Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Hazardous decomposition products in case of fire Decomposition products may include the following materials: sulfur oxides, halogenated compounds

5.3 Advice for firefighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

5.4 Special protective equipment for firefighters

No information available

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Stop leak if without risk. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

Section 7 Handling and storage

7.1 Precautions for safe handling

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep away from combustible material. Empty containers retain product residue and can be hazardous.

7.2 Conditions for safe storage, including any incompatibilities

| | | | |
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See NFPA 430, Code for the Storage of Liquid and Solid Oxidizers. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Separate from reducing agents and combustible materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

Section 8 Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits No information available

8.2 EXPOSURE CONTROLS

Appropriate engineering controls Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protective equipment

Respiratory: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: Wear an appropriate NIOSH approved respirator if concentration levels exceed the safe exposure limits. Use appropriate NIOSH approved dust respirator if PEL/TLV may be exceeded.

Hands: Use gloves appropriate for work or task being performed. Recommended: Natural rubber (latex). Eyes: Safety eyewear should be used when there is a likelihood of exposure. Not required under normal conditions of use. Recommended: Safety glasses with side shields.

Skin: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. No special protective clothing is required. Recommended: Lab coat.

Control of environmental exposure In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

Appearance Solid

Color White

Odor Slight chlorine odor

Odor threshold No data available

pH, 20°C, 1:500 water solution 5.89

Relative evaporation rate (butylacetate=1) No data available

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| | |
|--------------------------------|-------------------|
| Melting point | No data available |
| Freezing point | No data available |
| Boiling point | No data available |
| Flash point, close-up, °C | <30 |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Flammability (solid, gas) | No data available |
| Vapor pressure | No data available |
| Relative vapor density at 20°C | No data available |
| Relative density | No data available |
| Density | No data available |
| Solubility | Soluble in water |
| Log Pow | No data available |
| Viscosity, kinematic | No data available |
| Explosive properties | No data available |
| Oxidizing properties | No data available |
| Explosive limits | No data available |
| 9.2 Other information | |
| Minimum ignition energy | No data available |
| VOC content | >1% |

Section 10 Stability and reactivity

10.1 REACTIVITY

Stable, non-reactive in storage conditions.

10.2 CHEMICAL STABILITY

Stable under normal conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include the following: contact with combustible

10.4 CONDITIONS TO AVOID

No specific data.

10.5 INCOMPATIBLE MATERIALS

Reactive or incompatible with the following materials: reducing materials

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10.6 HAZARDOUS DECOMPOSITION PRODUCTS

No hazardous decomposition products are known

Section 11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity Sodium Bisulfate, LD₅₀, oral, rat, 2800mg/kg
Sodium Chlorite, LD₅₀, oral, rat, 230mg/kg
Citric Acid, LD₅₀, oral, rat, 165mg/kg

Skin corrosion/irritation No known significant effects or critical hazards.

Serious eye damage/eye irritation No known significant effects or critical hazards.

Respiratory or skin sensitization No known significant effects or critical hazards.

Germ cell mutagenicity No known significant effects or critical hazards.

Carcinogenicity No known significant effects or critical hazards.

Reproductive toxicity No known significant effects or critical hazards.

Specific target organ toxicity - single exposure No known significant effects or critical hazards.

Specific target organ toxicity - repeated exposure No known significant effects or critical hazards.

Aspiration hazard No known significant effects or critical hazards.

11.2 Additional Information No known significant effects or critical hazards.

Section 12 Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bio-accumulative potential

No data available

12.4 Mobility in soil

Soluble in water

12.5 Results of PBT and vPvB assessment

Results of PBT assessment No PBT substances used in the product.

12.6 Other adverse effects

No information available

Section 13 Disposal considerations



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ALPHA ADVANCED TECHNOLOGIES, CO., LTD.

SAFETY DATA SHEET

| | | | |
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13.1 Waste treatment methods

| | |
|--|--|
| Waste treatment methods | Dispose of in accordance with local regulations. |
| Waste management (disposal and evaluation) | Disposal must be done according to local/official regulations. Refer to manufacturer/supplier for information on recovery/recycling. |
| Contaminated packaging | Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. |

Section 14 Transport information

| | |
|---|--|
| Not classified as Dangerous Goods by the criteria of the International Dangerous Goods Code (IDGC) for transport by Road and Rail; NON-DANGEROUS GOODS. | |
| Road and Rail Transport | Not classified as Dangerous Goods by the criteria of the International Dangerous Goods Code (IDGC) for transport by Road and Rail; NON-DANGEROUS GOODS. |
| Marine Transport | Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS. |
| Air Transport | Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS. |

Section 15 Regulatory information

| | |
|---|--|
| 15.1 | Safety, health and environmental regulations/legislation specific for the substance or mixture |
| Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances | |
| 15.2 | Chemical safety assessment |
| The substance is not classified for human health hazards or for environment effects and it is not PBT or vPvB so that no exposure assessment or risk characterization is required. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures. | |

Section 16 Other information

| | |
|---|---|
| Legislation related to safety data sheets | GHS Rev.3 and European Regulation No.1272/2008, No.1907/2006 and its amendments |
| Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks | Not applicable |
| Texts of the legislative phrases mentioned in section 2 | Not applicable |
| Texts of the legislative phrases mentioned in section 3 | The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3 |
| Advice related to training | Minimal training is recommended in order to prevent industrial risks for |



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staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Other information

Training staff on good manufacturing practice. Manipulations are to be done only by qualified and authorized persons. Use good personal hygiene practices.

MSDS

This information applies to the PRODUCT AS SUCH and conforming to specifications of the company. In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear. The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely.

Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes. The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive.

It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product.

It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product. (usage, storage, cleaning of containers, other processes). The totality of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of environment.

Disclaimer

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new product.