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ThreeBond Co., Ltd.

Technical Data

ThreeBond 6658C

Strong acid electrolytic water

1. Product description

ThreeBond 6658C is strong acid electrolytic water excelling in sterilizing power. It can quickly remove bacteria and viruses, such as enterohemorrhagic E. coli O-157, norovirus and staph aureus. In addition, it has a deodorizing effect because it removes bacteria which cause odor.

The acid electrolytic water is designated as a food additive and safe to use.

Hereinafter, ThreeBond is abbreviated to TB.

2. Features

- (1) Strong acid electrolytic water with pH of 2.5 produced by electrolysis of water
- (2) Quick removal of bacteria and viruses
- (3) Deodorizing effect by removal of bacteria which cause odor
- (4) Environmentally-friendly sterilizing and deodorizing agent not containing chemicals

3. Applications

- (1) Removal of bacteria in cars
- (2) Removal of bacteria on cooking utensils used in restaurants, etc.
- (3) Removal of bacteria in kids' rooms and restrooms in stores
- (4) Removal of bacteria on equipment in hospitals and welfare facilities

4. Properties

Table 1 Properties of TB6658C

Test item	Unit	Result	Test method	Remark
Appearance (color)	-	Colorless	3TS-2100-020	-
pH	-	2.5	3TS-6400-002	25°C

5. Characteristics

Table 2 Influence of TB6658C on materials

Resin		Metal		Rubber	
Polypropylene	No problem	Zinc	Slightly blackening	EPDM	No problem
Nylon 6	Slightly swelling	Cast iron	No problem	NR	No problem
Polyethylene	No problem	Aluminum	No problem	NBR	No problem
Phenol	No problem	Steel	No problem	SBR	No problem
ABS	No problem	Copper	Slightly lustered	CR	No problem
PPO	No problem	Brass	Slightly lustered		

<Test method>

- (1) Impregnate each test piece completely with TB6658C.
- (2) After a lapse of 3 minutes, take out the test piece, and dry it by air blow.
- (3) Visually check the appearance of the test pieces.

* The copper and brass test pieces are found to be slightly lustered after the test because the surface oxide layers were removed.

6. Sterilization effect test

Table 3 Results of sterilization effect test

Test bacterium	Before test (viable bacteria count)	15 seconds after spraying TB6658C (viable bacteria count)
Enterohemorrhagic E. coli O-157	3.9×10^5	<10
Salmonella	4.4×10^5	<10
Norovirus	5.3×10^5	<10
Staphylococcus aureus	4.9×10^5	<10
Vibrio parahaemolyticus	3.2×10^5	<10
Shigella sonnei	5.2×10^5	<10

*<10 indicates that no bacteria or viruses were detected.

7. Sensory test (odor)

- (1) Prepare a sealable container (a cubical container 30 cm on a side), and place a 5 cm × 5 cm cloth in the center of the container.
- (2) Put a drop of vinegar on the cloth placed in (1), and leave it in a sealed state for 1 minute.
- (3) Spray TB6658C by pushing the button twice, and leave it in a sealed state for 5 minutes.
- (4) Check the odor to confirm that the odor is weaker than that before spraying.

Table 4 Results of sensory test

Check item	Before spraying TB6658C	After spraying TB6658C
Odor	With pungent odor	Without pungent odor

8. Usage

- (1) Do not inhale or swallow.
- (2) Keep out of reach of children.

9. First aid

- (1) If swallowed, do not induce vomiting. Immediately rinse the mouth, and get medical attention.
- (2) If in eyes, repeatedly and sufficiently rinse with clean water, and immediately get medical attention.
- (3) If on skin, sufficiently wash with clean water. If there is any abnormality on the skin, get medical attention.
- (4) If any abnormality is found in the body, stop using it, and get medical attention.
- (5) If you get sick while using it, stop using it, and keep quiet in a well-ventilated place.
If you do not feel restored, get medical attention.

10. Usage

- (1) Spray the agent directly to the object.
- (2) After leaving for about 15 seconds, wipe it away with a cloth or waste cloth.
* Do not leave TB6658C for 3 minutes or more after spraying. Doing so may cause stains on some materials.

11. Directions for use

- (1) For industrial use. Do not use for household purposes.
- (2) Before using, sufficiently confirm whether the purpose of use is appropriate.
- (3) Do not use it on high-temperature parts.
- (4) Avoid spraying a lot on rubber or plastic parts.
- (5) Do not use on zinc products.

- (6) Do not leave sprayed TB6658C for 3 minutes or more. Wipe away, or blow air. Doing so may cause stains on some materials.
- (7) Before using, spray it on an inconspicuous area to check that it does not affect the surface.
- (8) If it is sprayed on an unintended area, immediately wipe it away with a cloth or waste cloth.
- (9) After the container is opened, components in the air may dissolve in TB6658C, and its pH may change. Use it as soon as possible.
- (10) If it has frozen, do not heat it on an open fire. Let it melt naturally.
- (11) For detailed hazard information of the product, see the Safety Data Sheet (SDS).

12. Storage

Store in a dark indoor place avoiding direct sunlight, high humidity and freezing temperature.

13. Disposal

Dispose of the used cloth and container and the waste liquid after cleaning in accordance with the prefectural ordinance.

14. Precautions

For Industrial
Use Only

(Do not use for household purposes.)

This product is developed for general industrial use. Before using this product, the user must accept the following terms:

- The technical data given herein are not guaranteed values, but examples of experimental values obtained by our specified test methods.
We do not guarantee that the uses described herein do not conflict with any intellectual property right.
- Before using this product, confirm the appropriateness and safety of the use for the application in question, and bear all responsibilities and risks involved in the use. Never embed or inject into bodies nor use as a medical implant that may be left in the body.
- We are not liable for personal injury or property damage caused by improper handling of this product. If the properties or usage of the product to be used are unclear, never use it.
- For detailed safety information of the product, see the Safety Data Sheet (SDS). To obtain the SDS, contact our sales office or customer service center.
- Information in this document is subject to change at our own discretion.

16. Registered trademark

ThreeBond is a trademark or a registered trademark of ThreeBond Holdings Co., Ltd.