

Date created: October 1, 2003

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## Safety Data Sheet (SDS)

Product name: C.A.W Antibacterial & Deodorant Agent "Titania"

### 1. Product and corporate information

Product name: C.A.W Antibacterial & Deodorant Agent "Titania"  
 Product code: BKN-1, BKN-6, BKN-50  
 Company name: Central Automotive Products Ltd.  
 Address: 4-2-30, Nakanoshima, Kitaku, Osaka City, Osaka Prefecture, Japan  
 Division in charge: R&D Group, Product Development Division  
 Telephone: +0081-6-6443-5846  
 Facsimile: +0081-6-6445-8573  
 Classification No.: 5001-5-A

### 2. Hazards identification

GHS classification:	Carcinogenicity	Category 1
	Reproductive toxicity	Category 1
	Specific target organ toxicity -Repeated exposure	Category 1 (liver)
		Category 2 (central nervous system)

#### GHS label elements

Pictograms or symbols:



Signal words: Danger

Hazard statement:

H350 May cause cancer  
 H360 May damage fertility or the unborn child  
 H372 Causes damage to liver through prolonged or repeated exposure  
 H373 May cause damage to central nervous system through prolonged or repeated exposure

Precautionary statements:

#### 【Prevention】

P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P260 Do not breathe dust/fumes/gas/mist/vapours/spray.  
 P264 Wash your hands thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### 【Response】

P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P314 Get medical advice/attention if you feel unwell.

#### 【Storage】

## 【Disposal】

P405 Store locked up.

P501 Entrust disposition of contents/container to waste dealer approved by governor.

## 3. Composition/ information on ingredients

Classification of chemical substance/mixture:

Mixture

Components and contents

Substance name	Content (%)	PDSCL Act No.	ISHL Act No.	PRTR Law No.	CAS No.
Ethanol	1 - 2	Not applicable	61	Not applicable	64-17-5
Titanium phosphate compound	0.1 - 1	Not applicable	Not applicable	Not applicable	Not disclosed
n-Propyl alcohol	0.1 - 1	Not applicable	494	Not applicable	71-23-8
Isopropyl alcohol	0.1 - 1	Not applicable	494	Not applicable	67-63-0
Water	> 90	Not applicable	Not applicable	Not applicable	7732-18-5

## 4. First-aid measures

Inhalation:	Move to a location where fresh air is available, allow the subject to rest and keep the subject warm. If you feel unwell, then seek medical attention.
Skin contact:	Thoroughly rinse the affected area with a plenty of water and soap. Immediately remove all contaminated clothing. If a problematic symptom occurs, then seek medical attention.
Eye contact:	Thoroughly rinse eye with a plenty of clean running water, and then seek medical attention. Remove contact lenses if present and easy to do. Continue rinsing.
Swallowing:	Do not force the victim to vomit: immediately seek medical attention. If the victim's mouth is contaminated, thoroughly rinse with a plenty of water.

## 5. Fire-fighting measures

This product is inflammable.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

If leakage has occurred indoors, open the windows and door and allow the room to be thoroughly ventilated.

Be careful because spilled areas are slippery.

Environmental precautions:

Strictly prevent spilt material from flowing into a sewerage system.

Methods and materials for containment and cleaning up:

For a smaller amount of spill, allow it to be absorbed in soil and/or pieces of factory cloth, and collect in a vacant container which can be sealed.

For a large amount of spill, prevent flowing-away with sandbags, etc., and recover into a vacant container after being leaded to a safety place.

## 7. Handling and storage

Precautions for safe handling

Countermeasure techniques:

Use in a well-ventilated place.

Wear appropriate protective equipment that protects skin, eyes and respiratory organ.

Preventive measure:

Do not eat, drink or smoke when using this product.

	After handling, wash hands, mouth and face thoroughly, and change the working clothes if contaminated.
Incompatible contacts:	See [10. Stability and reactivity]
Condition for safe storage, including any incompatibilities	
Storage:	Securely close the container every time after the use. Avoid exposure to direct sunlight, heat (40°C), freeze and high humidity. Store locked up in a cool, dark and well-ventilated place.
Recommended container and packing materials:	Store in appropriate containers accordance with fire law and transport regulations.

## 8. Exposure controls/ personal protection

### Administrative Control Level and Allowable Concentration:

Substance name	CAS No.	Japanese Administrative Control Level	Threshold Limit Value		
			JSOH (2019 ver.)	ACGIH(2019 ver.)	
				TLV-TWA	TLV-STEL
Ethanol	64-17-5	-	-	-	1000ppm
n-Propyl alcohol	71-23-8	-	-	100ppm	-
Isopropyl alcohol	67-63-0	-	400ppm (980 mg/m <sup>3</sup> )	200ppm	400ppm

Appropriate engineering controls: Keep good ventilation indoors.

Provide a local ventilation system for poor ventilated place or a location where much vapor can occur.

Install a local ventilation system to exhaust retained gas if you use a lot of product indoors.

Prepare emergency eyewash and safety shower nearby.

### Protective equipment

Respiratory protection:	Gas mask against organic gas
Hand protection:	Protective gloves
Eye protection:	Protective goggles
Skin protection:	Protective clothing, apron
Other protection	Rubber boots

## 9. Physical and chemical properties

Physical state:	Liquid
Color:	colorless~pale blue
Odor:	Odorless
Melting point/ freezing point:	No data available
Boiling point or initial boiling point and boiling range:	No data available
Lower and upper explosion limit/ flammability limit:	This product is inflammable.
Flash point:	This product is inflammable.
Auto-ignition temperature:	This product is inflammable.
Decomposition temperature:	No data available
pH:	2.5 - 3.5
Kinetic viscosity:	No data available
Solubility:	Soluble in water
Partition coefficient n-octanol/water (log value):	No data available
Vapor pressure:	No data available
Density and/or relative density:	No data available
Relative vapor density:	No data available
Particle characteristics:	No data available

## 10. Stability and reactivity

Reactivity and chemical stability: Stable under ordinary handling conditions.

## 11. Toxicological information

### Acute toxicity - Oral:

Products: Not classified.  $ATE_{mix} > 5,000$  mg/kg  
 Ethanol:  $LD_{50} > 6,200$  mg/kg (Rat, NITE-CHRIP)  
 n-Propyl alcohol:  $LD_{50} > 1,870$  mg/kg (Rat, NITE-CHRIP)  
 Isopropyl alcohol:  $LD_{50} > 4,384$  mg/kg (Rat, NITE-CHRIP)

### Acute toxicity - Dermal:

Products: Not classified.  $ATE_{mix} > 5,000$  mg/kg  
 Ethanol:  $LD_{Lo} = 20,000$  mg/kg (Rabitt, NITE-CHRIP)  
 n-Propyl alcohol:  $LD_{50} > 4,000$  mg/kg (Rabitt, NITE-CHRIP)  
 Isopropyl alcohol:  $LD_{50} > 12,870$  mg/kg (Rabitt, NITE-CHRIP)

### Acute toxicity - Inhalation:

Products: Not classified.  $ATE_{mix} > 20,000$ ppmV  
 Ethanol:  $LC_{50} > 63,000$ ppmV (Rat, NITE-CHRIP)  
 n-Propyl alcohol:  $LC_{50} > 4,000$ ppm/4h (Rat, NITE-CHRIP)  
 Isopropyl alcohol:  $LC_{50} > 27,908$ ppmV/4h (Rat, NITE-CHRIP)

### Carcinogenicity:

Products: : Category 1  
 Ethanol: : Ethanol is classified as A3 by ACGIH. Since ethanol and the biotransformer acetaldehyde induce cancers in the esophagus by ingestion of ethanol contained in alcoholic beverages, it is classified as Category 1A. (NITE-CHRIP)

### Reproductive toxicity:

Products: : Category 1  
 Ethanol: : Since it causes congenital malformations in newborns such as microcephaly, short palpebral fissures, joint, limb and heart abnormalities, behavioral and cognitive dysfunction during development, it is classified as Category 1A. (NITE-CHRIP)

### Specific target organ toxicity -Repeated exposure:

Products: : Category 1 (liver), Category 2 (central nervous system)  
 Ethanol: : The liver is the most strongly affected target organ and progresses to cirrhosis through the stages of fatty degeneration, necrosis and fibrosis, so it was classified as Category 1 (liver). In addition, the US FDA has approved three types of therapeutic agents for the treatment of alcohol abuse and addiction patients, so it was classified as Category 2 (central nervous system). (NITE-CHRIP)

## 12. Ecological information

### Hazardous to the aquatic environment- Short-term (acute) hazard:

Products: Not classified.  
 Ethanol:  $EC_{50} 1,000$  mg/L/96h (Algae Chlorella, NITE-CHRIP)  
 $EC_{50} 5,463$  mg/L/48h (Crustacean Daphnia magna, NITE-CHRIP)  
 $LC_{50} 11,200$ ppm/96h (Fish Rainbow trout, NITE-CHRIP)  
 n-Propyl alcohol:  $LC_{50} 3,025$  mg/L/48h (Crustacean Daphnia, NITE-CHRIP)  
 Isopropyl alcohol:  $ErC_{50} > 1,000$  mg/L/72h (Algae Pseudokirchneriella subcapitata, NITE-CHRIP)  
 $EC_{50} > 1,000$  mg/L/48h (Crustacean Daphnia magna, NITE-CHRIP)  
 $LC_{50} > 100$  mg/L/96h (Fish Oryzias latipes, NITE-CHRIP)

### Hazardous to the aquatic environment- Long-term (chronic) hazard:

Products: Not classified.

Ethanol:	Rapidly degradable. (BOD decomposition 89%) NOEC 9.6 mg/L/10d (Crustacean a type of Ceriodaphnia dubia, NITE-CHRIP)
n-Propyl alcohol:	No acute toxicity and water soluble. (Water solubility 1,000,000 mg/L, NITE-CHRIP)
Isopropyl alcohol:	Rapidly degradable. (BOD decomposition 86%) NOEC > 100 mg/L/21d (Crustacean Daphnia magna, NITE-CHRIP)
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available
Hazardous to the ozone layer:	No data available

### 13. Disposal considerations

Commission an authorized industrial waste disposal agent to do the disposal work.  
Prevent washed water from flowing on the ground or into the drain.  
Totally remove the contents from the container before disposal of the container.  
Strictly observe the currently effective environmental protection laws and regulations.

### 14. Transport information

International regulation:	Enter the following information in the hazardous material statement and submit the statement to the maritime shipment agent or airline.
UN number:	Not applicable
Description of material:	Not applicable
UN classification:	Not applicable
Container grade:	Not applicable
Marine pollutant:	
Class Y substance:	n-Propyl alcohol
Class Z substance:	Isopropyl alcohol
Specific safety measures and conditions for transportation:	See [7. Handling and storage]. Check leakage of containers. Load the containers in the transport means such that they will not fall, drop or be damaged, and secure them to positively prevent collapse of cargo. Avoid heat when load the containers.
Domestic regulations in Japan	
Land transportation:	In accordance with the provisions in the Fire Service Act of Japan.
Marine/air transportation:	In accordance with the provisions in the Ship Safety Act and the Civil Aeronautics Act of Japan.
Emergency response guide:	Not applicable

### 15. Regulatory information

Fire Service Act:	Non-hazardous
Poisonous and Deleterious Substances Control Act:	Not applicable
Industrial Safety and Health Act:	
Hazardous substances:	No data available
Ordinance on prevention of hazards due to specified chemical substances:	Not applicable
Ordinance on prevention of organic solvent poisoning:	Not applicable due to each content amount of the regulation value or less. Class-2 organic solvents, etc. Isopropyl alcohol
Substance obligated of indication to the label:	Ethanol
Substance obligated of indication to the SDS:	Ethanol, n-Propyl alcohol, Isopropyl alcohol

PRTR Law:	Not applicable
Ship Safety Act:	Not applicable
Civil Aeronautics Act:	Not applicable

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## 16. Other information

1. SDS's issued from the manufacturers of materials being mixed
  2. GHS guidelines for creating labels and indication / SDS (Japan Chemical Industry)
  3. Relevant laws and regulations
  4. Model SDS information about materials to be notified per Industrial Safety and Health Law (Japan Advanced Information Center of Safety and Health)
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The Safety Data Sheet (SDS) is offered to a user who handles a hazardous chemical product as reference information that helps the user be able to safely use the product.

Hazard information about a mixture product has been derived from the hazard information of individual raw materials.

The user of the chemical product is requested to utilize the SDS after understanding that the user has to make, relevant actions appropriate in accordance with the user's actual conditions of material handling at their own responsibility practice by referring to the SDS

Therefore, this data sheet itself does not constitute a warranty for safety of the chemical product.

This SDS was written according to the laws and regulations in Japan.