

SAFETY DATA SHEET

1. Product and company identification

Name of chemical (Product name): AMPHITOL 20BS

Product No.: B0001637

Manufacturer/Importer/Distributor Information

Information on domestic manufacturer

Company Name: Kao Corporation
 Address: 1-3,Bunka 2-chome,Sumida-ku,Tokyo 131-8501 Japan
 Telephone: +81-3-5630-7700
 Fax: +81-3-5630-7889
 Division: Chemical Business
 E-mail: chemical@kao.co.jp

Emergency telephone number: 81-3-5630-7700

2. Hazard(s) identification

GHS classification:

Health Hazards

Serious Eye Damage/Eye Irritation	Category 1
Specific Target Organ Toxicity - Single Exposure	Category 2 (Gastrointestinal tract)
Specific Target Organ Toxicity - Repeated Exposure	Category 2 (Kidney, Bladder)

Environmental Hazards

Acute hazards to the aquatic environment	Category 3
Chronic hazards to the aquatic environment	Category 3

GHS label elements

Pictograms:



Signal Word: Danger

Hazard Statement: Causes serious eye damage.
 May cause damage to organs.
 May cause damage to organs through prolonged or repeated exposure.
 Harmful to aquatic life with long lasting effects.

Prevention: Do not breathe dust/fume/gas/mist/vapors/spray. Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Wear eye protection/face protection.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. IF ON SKIN: Gently wash with plenty of water and soap. IF exposed or concerned: Call a POISON CENTER/doctor.

Storage: Store locked up.

Disposal: Passed to a licensed waste contractor.

Unknown toxicity - Health

Acute toxicity, inhalation, dust or mist 42 %

Unknown toxicity - Environment

Acute hazards to the aquatic environment 0 %
 Chronic hazards to the aquatic environment 0 %

3. Composition/information on ingredients

Mixtures

General information: No data available.

Chemical name or generic name	CAS number	ISHL	ENCS	Content in percent (%)
Dimethylaurylaminoacetate betaine	683-10-3	YES	YES	
Sodium chloride	7647-14-5	YES	YES	
Sodium hydroxyacetate	2836-32-0	YES	YES	

4. First-aid measures

Description of necessary first-aid measures

Inhalation: Remove person to fresh air and keep comfortable for breathing.

Skin Contact: Gently wash with plenty of soap and water.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Ingestion: Immediately call a POISON CENTER/doctor.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Powder, alcohol-resistant foam, water spray, carbon dioxide, sand

Unsuitable extinguishing media: No data available.

Specific hazards arising from the chemical: Produce irritating or toxic gases in a fire.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: Keep away from sources of ignition and use appropriate extinguishing media. Fight fire from upwind position if possible. Product itself is non-combustible. Do not flow the materials causing adverse effects into the environment with effluent fire extinguishing agents.

Special protective equipment for fire-fighters: Use goggles in combination with dust mask, and other protections as appropriate to situation. Risk of producing harmful gases such as carbon monoxide and nitrogen oxides. Avoid inhalation of smoke or gases.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Use goggles and protective gloves. Large spills : Remove person to safety. Ensure adequate ventilation.

Methods and material for containment and cleaning up: Small spills: Absorb spills with sand, inert absorbent, waste cloth or sawdust. Then wipe up remainder in waste cloth. Large spills: Dike spills and dispose of in safe area.

Environmental Precautions: Avoid release to the environment.

Prevention of secondary hazards: No data available.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation): Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use an adequate ventilation.

Safe handling advice: Avoid contact with eyes. Use an adequate ventilation. Wash thoroughly after handling. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using the product.

Contact avoidance measures: No data available.

Hygiene measures: No data available.

Storage

Safe storage conditions: Keep container tightly closed. Store in a well-ventilated place. Store locked up.

Safe packaging materials: No data available.

Storage Temperature: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Product: None known.

Individual protection measures, such as personal protective equipment

- Eye/face protection:** Safety goggles
- Hand Protection:** Material: Rubber gloves
- Skin and Body Protection:** Full-body suit
- Respiratory Protection:** Use as appropriate to situation.
- Hygiene measures:** No data available.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

- Physical state:** liquid
- Form:** Liquid
- Color:** Pale yellow, clear
- Odor:** Odorless or slightly characteristic odor
- Odor Threshold:** No data available.
- Freezing point:** 32 °F/0 °C
- Boiling Point:** No data available.
- Flammability:** No data available.
- Upper/lower limit on flammability or explosive limits**
- Explosive limit - upper:** No data available.

Explosive limit - lower:	No data available.
Flash Point:	No data available.
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
pH:	5.5 - 8 5% solution
Viscosity	
Dynamic viscosity:	No data available.
Kinematic viscosity:	No data available.
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	Very Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Vapor pressure:	No data available.
Relative density:	No data available.
Density:	1.063 g/ml (68 °F/20 °C) 1.057 g/ml (86 °F/30 °C) 1.052 g/ml (104 °F/40 °C)
Relative vapor density:	No data available.
Particle characteristics	
Particle Size Distribution:	No data available.

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Stable in general.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	No data available.
Incompatible Materials:	No data available.
Hazardous Decomposition Products:	No special hazardous and harmful combustion or decomposition.

11. Toxicological information

Acute toxicity (list all possible routes of exposure)

Oral Product:	LD 50 (Rat): 3.8 g/kg (Data on similar product) Not classified based on available data.
----------------------	--

Dermal Product: ATEmix 4,333.33 mg/kg

Inhalation Product: Dusts, mists and fumes: Classification not possible due to insufficient data.
 Vapour: No data available.
 Not classified based on available data of component(s).

Skin Corrosion/Irritation Product: Classification not possible due to insufficient data.

Serious Eye Damage/Eye Irritation Product: No data available.

Components:
 Dimethylaurylaminoacetate betaine Category 1: (99)
 Sodium chloride Category 2A: (2)

Respiratory or Skin Sensitization Product: Skin: Classification not possible due to insufficient data.
 Respiratory: Classification not possible due to insufficient data.

Carcinogenicity Product: Classification not possible due to insufficient data.

IARC: No carcinogenic components identified

ACGIH: No carcinogenic components identified

NTP: No carcinogenic components identified

JSOH: No carcinogenic components identified

EU No carcinogenic components identified

Germ Cell Mutagenicity

In vitro Product: Ames test (TA98, TA100, WP2try-): Negative (Data on similar product)
 Rec-assay: Negative (Data on similar product)
 cell transformation assay: Negative
 Classification not possible due to insufficient data.

In vivo Product: Classification not possible due to insufficient data.

Reproductive toxicity Product: Classification not possible due to insufficient data.

Specific Target Organ Toxicity - Single Exposure Product: No data available.

Components:

Dimethylaurylaminoacetate betaine Category 2: Gastrointestinal tract: (1)

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

Dimethylaurylaminoacetate betaine Category 2: Kidney, Bladder: (1)

Aspiration Hazard

Product: Classification not possible due to insufficient data.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment

Fish

Product: TLm (Carp): 60 - 90 mg/l (Data on similar product)
 TLm (Red Killifish, 24 h): 50 mg/l (Data on similar product)

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:

Dimethylaurylaminoacetate betaine Category 2 (12)
 Sodium hydroxyacetate Category 3 (4)

Chronic hazards to the aquatic environment

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:

Dimethylaurylaminoacetate betaine Category 3 (12)

Persistence and Degradability

Biodegradation
Product: Readily biodegradable

BOD/COD Ratio
Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)
Product: No data available.

Partition Coefficient n-octanol / water (log Kow)
Product: No data available.

Mobility in soil: No data available.

Components:
 Dimethyl laurylaminoacetate betaine No data available.
 Sodium chloride No data available.
 Sodium hydroxyacetate No data available.

Hazardous to the ozone layer: No data available.
 Not classified based on available data of component(s).

Further Information: No data available.

13. Disposal considerations

Disposal methods: Review "HANDLING AND STORAGE (Section 7)". Passed to a licensed waste contractor. Incinerate with little portions. Risk of producing harmful gases such as carbon monoxide and nitrogen oxides.

Contaminated Packaging: No data available.

14. Transport information

International regulations

IMDG
 Not regulated.

IATA
 Not regulated.

National Regulations

Domestic Standard: In compliance with domestic law.

15. Regulatory information

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

Until March 31st, 2023

Not Regulated

From April 1st, 2023

Class 1 Substance(s):

2-(N-Dodecyl-N,N-dimethylammonio)acetate 31%

Industrial Safety and Health Law

Not Regulated

Poisonous and Deleterious Substances Control Act

Not Regulated

Explosives Control Act:

Not Regulated

High Pressure Gas Safety Act:

Not Regulated

Fire Service Act:

Not applicable to dangerous materials / designated flammables.

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

Priority Assessment Chemical Substances (PACs):

(N,N-Dimethyltetradecan-1-aminiumyl)acetate

2-(N-Dodecyl-N,N-dimethylammonio)acetate

Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule:

Not Regulated

Air Law, Enforcement Rule:

Not Regulated

Export Trade Control Order:

Not Regulated

Inventory Status:

US TSCA Inventory:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
Australia AICS:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	Contact us for information
Japan (ENCS) List:	On or in compliance with the inventory
Japan ISHL Listing:	On or in compliance with the inventory
Philippines PICCS:	On or in compliance with the inventory
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
REACH (EU):	Contact us for information
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory

16. Other Information**Disclaimer:**

To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability (including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another, in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist. In the case of the product for fragrance, it's in accordance with the latest standard of IFRA within ordinary use. Contact with the supplier for detail information.

Reference:

- Hazard communication of chemicals based on GHS -- Labelling and Safety Data Sheet (SDS) (JIS Z 7253 : 2019)
- International Chemical Safety Cards (ICSC) (Compiler's Guide) (1994)
- GHS guideline -- Labelling and Safety Data Sheet (2019) Japan Chemical Industry Association
- (1): GHS Classification Database, National Institute of Technology and Evaluation (NITE)
- (2): Registry of Toxic Effects of Chemical Substances
- (4): Biodegradation and Bioaccumulation Data of Existing Chemicals Based on the CSCL JAPAN
- (12): Results of Eco-toxicity tests of chemicals conducted by Ministry of the Environment in Japan
- (99): Internal study data