

SAFETY DATA SHEET

1. Identification of the substance or mixture and of the supplier

GHS Product identifier: แอมฟิทอล 20เอ็น
AMPHITOL 20N

Other means of identification

SDS number: B0003593

Recommended use of the chemical and restrictions on use

Recommended use: Not available.

Recommended restrictions: Not known.

Supplier's details

Manufacturer

Company Name: Kao Industrial (Thailand) Co.,Ltd.
Address: O-NES Tower, 14th floor, 6, Soi Sukhumvit 6,
Klongtoey Sub-district, Klongtoey District, Bangkok 10110, Thailand
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Contact division: Chemical Business
E-mail: -

Emergency telephone number: 66-2-655-4433

2. Hazard(s) identification

GHS classification

Health Hazards

Acute toxicity (Oral)	Category 5
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1

Unknown toxicity - Health

Acute toxicity, dermal	34.84 %
Acute toxicity, inhalation, dust or mist	35 %

Environmental Hazards

Acute hazards to the aquatic environment	Category 1
Chronic hazards to the aquatic environment	Category 2

Unknown toxicity - Environment

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

Label Elements

Pictograms:



Signal Word:

Danger

Hazard Statement:

May be harmful if swallowed.
Causes skin irritation.
Causes serious eye damage.
Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/ 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: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Call a POISON CENTER or doctor/ physician if you feel unwell. Collect spillage.

Storage:

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Disposal:

Passed to a licensed waste contractor.

Other hazards which do not result in GHS classification:

None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)
Lauryldimethylamine oxide		1643-20-5	

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures

Inhalation:	Remove person to fresh air and keep comfortable for breathing.
Skin Contact:	Gently wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash before re-use.
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.
Personal Protection for First-aid Responders:	No data available.

Most important symptoms and effects, both acute and delayed

Symptoms:	No data available.
Hazards:	No data available.

Indication of immediate medical attention and special treatment needed

Treatment:	Get medical attention if symptoms occur.
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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.
Special hazards arising from the substance or mixture:	Produce irritating or toxic gases in a fire.

Special protective equipment and precautions for fire-fighters

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.
Accidental release measures:	No data available.
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.

7. Handling and storage

Handling

Technical measures:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Local/Total ventilation:	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.
Contact avoidance measures:	No data available.

Storage

Safe storage conditions:	Keep container tightly closed. Store in a well-ventilated place.
Safe packaging materials:	No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Appropriate Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use an adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection:	Safety goggles
Hand Protection:	Rubber gloves
Other:	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: Clear, pale yellow

Odor: Slight characteristic odor

Odor Threshold: No data available.

Freezing point: <20 °C/68 °F

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: Not detected

Auto-ignition temperature: No data available.

Decomposition Temperature: No data available.

pH: 7.5
Method: 5% solution

Viscosity

Dynamic viscosity: 50 mPa.s (20 °C/68 °F)
60 mPa.s (40 °C/104 °F)
90 mPa.s (60 °C/140 °F)

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: 0.969 g/ml (20 °C/68 °F)
0.959 g/ml (40 °C/104 °F)
0.947 g/ml (60 °C/140 °F)

Relative vapor density: No data available.

Particle characteristics

Particle Size:	No data available.
Particle Size Distribution:	No data available.

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	No data available.
Possibility of hazardous reactions:	Reacts with acids. Reacts with base.
Conditions to avoid:	No data available.
Incompatible Materials:	No data available.
Hazardous Decomposition Products:	Carbon dioxide Nitrogen oxides

11. Toxicological information

Acute toxicity (list all possible routes of exposure)

Oral Product:	LD 50 (Rat, Male): 3,625 mg/kg (Data on equivalent product)
Dermal Product:	Classification not possible due to insufficient data.
Inhalation Product:	Dust and mist: Classification not possible due to insufficient data. Vapour: No data available. Not classified based on available data of component(s).
Skin Corrosion/Irritation Product:	OECD TG404 Rabbit, 4 h: Severe undiluted, (Data on equivalent product)
Serious Eye Damage/Eye Irritation Product:	Draize Rabbit: Severe undiluted, (Data on equivalent product)
Respiratory or Skin Sensitization Product:	Skin: No data available. Not classified based on available data of component(s). Respiratory: Classification not possible due to insufficient data.
Carcinogenicity Product:	No data available. Not classified based on available data of component(s).

IARC:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product:

Ames test (TA98, TA100, WP2try-): Negative (Data on equivalent product)

Rec-assay: Negative (Data on equivalent product)

Classification not possible due to insufficient data.

In vivo

Product:

Classification not possible due to insufficient data.

Reproductive toxicity

Product:

No data available.

Not classified based on available data of component(s).

Specific Target Organ Toxicity - Single Exposure

Product:

Classification not possible due to insufficient data.

Specific Target Organ Toxicity - Repeated Exposure

Product:

No data available.

Not classified based on available data of component(s).

Aspiration Hazard

Product:

No data available.

Other effects:

No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product:

LC 50 (Red Killifish, 96 h): 67.7 mg/l (OECD TG203) (Data on equivalent product)

Aquatic Invertebrates

Product:

EC 50 (Daphnia, 48 h): 11.0 mg/l (OECD TG202) (Data on equivalent product)

Toxicity to Aquatic Plants

Product:

ErC50 (Alga, 72 h): > 0.225 mg/l (OECD TG201) (Data on equivalent product)

Chronic hazards to the aquatic environment:

Fish

Product:

No data available.

Aquatic Invertebrates

Product:

No data available.

Components:

Lauryldimethylamine oxide Category 2 (8)

Persistence and Degradability:

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log K_{ow})

Product: No data available.

Mobility in soil:

No data available.

Other adverse effects:

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

IATA

UN Number:

UN 3082

UN Proper Shipping Name:

Environmentally hazardous substance, liquid, n.o.s.(Lauryldimethylamine oxide)

Transport Hazard Class(es):

Class:

9

Label(s):

9MI (Miscellaneous)

Packing Group:

III

Excepted quantity

E1

Environmentally Hazardous:

Yes

Marine Pollutant:

No

Special precautions for user:

Not Regulated.

Other information

Passenger and cargo aircraft:

Allowed. 964

Cargo aircraft only:

Allowed. 964

IMDG

UN Number:	UN 3082
UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Lauryldimethylamine oxide)
Transport Hazard Class(es)	
Class:	9
Label(s):	9
EmS No.:	F-A, S-F
Packing Group:	III
Limited quantity	5.00L
Excepted quantity	E1
Environmentally Hazardous:	Yes
Marine Pollutant:	Yes
Special precautions for user:	Not Regulated.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

Domestic Standard: In compliance with domestic law.

Emergency Response Guide Number: 171

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

Thailand. Reportable Hazardous Substances (Notification of Ministry of Industry Re: Bases respecting report of quantity of hazardous materials under Department of Industrial Works, B.E. 2547)

Not Regulated

Thailand. List of Hazardous Substances (Notification of Ministry of Industry Re: List of Hazardous Substances B.E. 2556, Annex: Schedules 1 - 6)

Citric acid

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, including date of preparation or last revision

Issue Date: 15.02.2021

Revision Date -

Version #: 2.0

Source of information: No data available.

Further Information: No data available.

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: (8): OECD SIDS