

SAFETY DATA SHEET

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

GHS Product identifier: NEOPELEX FS

Other means of identification

SDS number: B0003603

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
Telephone: +66-2-655-4433
Fax: +66-2-655-4545
Division: Chemical Business

Emergency telephone number: 66-2-655-4433

2. Hazard(s) identification

GHS classification of substance or mixture, and national or regional information:

Physical Hazards

Corrosive to metal	Category 1
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Health Hazards

Acute toxicity (Oral)	Category 4
Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1
Specific Target Organ Toxicity - Single Exposure	Category 2 (Respiratory system)
Specific Target Organ Toxicity - Repeated Exposure	Category 2 (Respiratory system)

Environmental Hazards

Acute hazards to the aquatic environment	Category 2
Chronic hazards to the aquatic environment	Category 3

Label Elements

Pictograms:

Product name: NEOPELEX FS



Signal Word: Danger

Hazard Statement: May be corrosive to metals.
 Harmful if swallowed.
 Causes severe skin burns and eye damage.
 May cause damage to organs.
 May cause damage to organs through prolonged or repeated exposure.
 Toxic to aquatic life.
 Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: Keep only in original packaging. 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 protective gloves/protective clothing/eye protection/face protection.

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. Immediately call a POISON CENTER/doctor. Absorb spillage to prevent material damage.

Storage: Store in a corrosion-resistant container with a resistant inner liner. Store locked up.

Disposal: Passed to a licensed waste contractor.

Other hazards which do not result in GHS classification: None.

Unknown toxicity - Health

Acute toxicity, dermal	1.2 %
Acute toxicity, inhalation, vapor	1.2 %

Unknown toxicity - Environment

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

3. Composition/information on ingredients

Substances

Chemical Identity	Common name and synonyms	CAS number	Concentration*
Alkyl(C10-16) benzene sulfonic acids		68584-22-5	
Sulfuric acid		7664-93-9	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Description of necessary first-aid measures

Ingestion:	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.
Inhalation:	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
Skin Contact:	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER/doctor if you feel unwell. Wash contaminated clothing before reuse.
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.

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 action 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. 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 sulfur 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.

Environmental Precautions: Avoid release to the environment.

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. If necessary, after dilution with water, cautiously neutralize with slaked lime or soda ash, and sweep or vacuum spills to containers, then flush with plenty of water.

Notification Procedures: Keep away from sources of ignition and prepare extinguishing media.

7. Handling and storage

Precautions to ensure safe handling: Keep away from source of ignition. Avoid contact with skin and eyes. Avoid contact with bases. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using the product. Use an adequate ventilation. Wash thoroughly after handling. Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities: Store locked up. Keep away from source of ignition. Do not store with alkalies. Store in a corrosion-resistant container with a resistant inner liner. Keep container tightly closed. Store in a well-ventilated place.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Sulfuric acid	TWA	1 mg/m ³	Thailand. OELs (DLPW Notification Re: Occupational Exposure Limits for Hazardous Chemicals), as amended (03 2001)
Sulfuric acid - Thoracic fraction.	TWA	0.2 mg/m ³	US. ACGIH Threshold Limit Values, as amended (2008)

Appropriate Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use an adequate ventilation. Iron is apt to rust. Plant equipment should be treated with rust-resist.

Individual protection measures, such as personal protective equipment

Eye/face protection: Safety goggles or Face shield

Hand Protection: Gloves (acid-resistant)

Other: Acid-resistant protective clothing

Respiratory Protection: Use chemical cartridge respirator for acids, 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:	Viscous liquid
Color:	Brown
Odor:	Pungent odour
Odor Threshold:	No data available.
Freezing point:	< 68 °F/20 °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:	412 °F/211 °C (Cleveland open cup)
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available
pH:	0.6 (10% solution)
Viscosity	
Dynamic viscosity:	815 mPa.s (86 °F/30 °C) 444 mPa.s (104 °F/40 °C) 230 mPa.s (122 °F/50 °C)
Kinematic viscosity:	No data available.
Flow Time:	No data available
Solubility(ies)	
Solubility in Water:	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:	1.056 g/ml (86 °F/30 °C) 1.049 g/ml (104 °F/40 °C) 1.042 g/ml (122 °F/50 °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:	No data available.
Possibility of hazardous reactions:	Has no self-reactivity.
Conditions to avoid:	No data available.
Incompatible Materials:	No data available.

Product name: NEOPELEX FS

Hazardous Decomposition Products: Carbon dioxide Sulfur oxides

11. Toxicological information

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50 (Rat): 300 - 2,000 mg/kg moderately toxic after single exposure
 (Data on similar product)

Dermal

Product: Classification not possible due to insufficient data.

Inhalation

Product: Dusts, mists and fumes: Classification not possible due to insufficient data.
 Vapour: Classification not possible due to insufficient data.

Components:

Sulfuric acid Category 2: Inhalation - dust and mist (8)

Skin Corrosion/Irritation

Product: No data available.

Components:

Alkyl(C10-16) benzene sulfonic acids Category 2: (5)

Sulfuric acid Category 1A: (87)

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

Alkyl(C10-16) benzene sulfonic acids Category 1: (5)

Sulfuric acid Category 1: (87)

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: Classification not possible due to insufficient data.

IARC:

No carcinogens present or none present in regulated quantities

ACGIH:

No carcinogens present or none present in regulated quantities

Product name: NEOPELEX FS

Germ Cell Mutagenicity

In vitro

Product: Ames test (TA98, TA100): Negative (Data on similar 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: No data available.

Components:

Sulfuric acid Category 1: Respiratory system: (1)

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

Sulfuric acid Category 1: Respiratory system: (1)

Aspiration Hazard

Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute 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:

Alkyl(C10-16) benzene sulfonic acids Category 2: (89)

Chronic hazards to the aquatic environment

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Product name: NEOPELEX FS

Toxicity to Aquatic Plants

Product: No data available.

Components:

Alkyl(C10-16) benzene sulfonic acids Category 3: (89)

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 Kow)

Product: No data available.

Mobility in soil:

No data available.

Other adverse effects:

No data available.

13. Disposal considerations

Disposal methods

Disposal instructions:

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 sulfur oxides.

Contaminated Packaging:

No data available.

14. Transport information

IATA

UN Number:	UN 2586
UN Proper Shipping Name:	Arylsulphonic acids, liquid
Transport Hazard Class(es):	
Class:	8
Label(s):	8
Packing Group:	III
Excepted quantity	E1
Environmentally Hazardous:	No
Marine Pollutant:	No
Special precautions for user:	Not regulated.
Other information	

Product name: NEOPELEX FS

Passenger and cargo aircraft: Allowed. 852
 Cargo aircraft only: Allowed. 856

IMDG

UN Number: UN 2586
 UN Proper Shipping Name: ARYLSULPHONIC ACIDS, LIQUID
 Transport Hazard Class(es)
 Class: 8
 Label(s): 8
 EmS No.: F-A, S-B
 Packing Group: III
 Limited quantity 5.00L

Excepted quantity E1
 Environmentally Hazardous: No
 Marine Pollutant: No
 Special precautions for user: Not regulated.

Emergency Response Guide Number153

15. Regulatory information

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

Thailand. Hazardous Substances Prohibited from On-line Notification System (Notification of Ministry of Industry, B.E. 2547)

Thailand. Notification of Ministry of Industry, Re: List of Hazardous Substances B.E. 2538

Thailand. Hazardous Substances under Chapter 3, Duties and Civil Liabilities (Notification of Ministry of Industry Re: Hazardous Substances under Chapter 3 of Hazardous Substances Act)

Thailand. Notification of the Ministry of Interior, Re: Work Safety Relating to Dangerous Chemicals

Thailand. Notification of the Ministry of Interior, Re: Work Safety Relating to More Dangerous Chemicals

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

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: 28.04.2021

Revision Date:

Version #: 1.0

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:

- (1): GHS Classification Database, National Institute of Technology and Evaluation (NITE)
- (5): Japan Surfactant Industry Association, GHS category
- (8): OECD SIDS
- (87): EU CLP Regulation Annex VI
- (89): CESIO_Environmental-Classification-of-Surfactant-according-to-2nd-ATP