

SAFETY DATA SHEET

1. Product and company identification

Name of chemical (Product name): NEOPELEX GS

Product No.: B0002539

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 |
| Contact division: | Chemical Business |
| E-mail: | chemical@kao.co.jp |

Intended Use: Washing and cleaning agents for household use and institutional use, Washing and cleaning products for industrial use

Restrictions on use: Please refer to Sec.2, 4, 7, 8, 10 and 13.

Emergency telephone number: 81-3-5630-7700

2. Hazard(s) identification

GHS classification

Physical Hazards

| | |
|--------------------|------------|
| Corrosive to metal | Category 1 |
|--------------------|------------|

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) |

Unknown toxicity - Health

| | |
|-----------------------------------|--------|
| Acute toxicity, dermal | 1.01 % |
| Acute toxicity, inhalation, vapor | 1.01 % |

Environmental Hazards

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

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 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: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/ physician if you feel unwell. 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]. Immediately call a POISON CENTER or doctor/ physician. IF exposed or concerned: Call a POISON CENTER/doctor. Absorb spillage to prevent material damage.

Storage:

Store in corrosive 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.

3. Composition/information on ingredients

Substances

| Chemical name or generic name | CAS number | ISHL | ENCS | Content in percent (%) |
|--------------------------------------|------------|------|------|------------------------|
| Alkyl(C10-16) benzene sulfonic acids | 68584-22-5 | YES | YES | |
| Sulfuric acid | 7664-93-9 | YES | YES | |

4. First-aid measures

Description of first aid measures

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| 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. |
| 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: | Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. |
| Personal Protection for First-aid Responders: | No data available. |

Most important symptoms and effects, both acute and delayed

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|------------------|--------------------|
| Symptoms: | No data available. |
| Hazards: | No data available. |

Indication of immediate medical attention and special treatment needed

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| Treatment: | Get medical attention if symptoms occur. |
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5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

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|---|---|
| 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

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| 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

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| 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. 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. |
| Environmental Precautions: | Avoid release to the environment. |
| Prevention of secondary hazards: | Keep away from sources of ignition and prepare extinguishing media. |

7. Handling and storage

Handling

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| Technical measures: | Iron is apt to rust. Plant equipment should be treated with rust-resist. 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: | Keep away from source of ignition. Avoid contact with skin and 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. Avoid contact with bases. Do not inhale gases, vapors, aerosols, fume or mist. |
| Contact avoidance measures: | No data available. |

Storage

Safe storage conditions: Keep container tightly closed. Store in a well-ventilated place. Store in corrosive resistant container with a resistant inner liner. Store locked up. Keep away from source of ignition. Do not store with alkalies.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

| Components | Type | Exposure Limit Values | Source |
|------------------------------------|---------|-----------------------|----------------------|
| Sulfuric acid | CEILING | 1 mg/m ³ | JPJSOH OEL (04 2007) |
| Sulfuric acid - Thoracic fraction. | TWA | 0.2 mg/m ³ | ACGIH (2008) |

Individual protection measures, such as personal protective equipment

Eye/face protection: Safety goggles or Face shield

Hand Protection: Material: Gloves (acid-resistant)

Skin and Body Protection: 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: Dark brown

Odor: Pungent odor

Odor Threshold: No data available.

Freezing point: < 20 °C/68 °F

Boiling Point: > 40 °C/104 °F

Flammability: No data available.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: No data available.

Explosive limit - lower: No data available.

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| Flash Point: | 211 °C/412 °F (Cleveland open cup) |
| Auto-ignition temperature: | > 100 °C/212 °F |
| Decomposition Temperature: | No data available. |
| pH: | 1.0 (10% solution) |
| Viscosity | |
| Dynamic viscosity: | 1,650 mPa.s at 20 °C/68 °F 825 mPa.s at 30 °C/86 °F 440 mPa.s at 40 °C/104 °F |
| 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: | 1.052 g/ml at 20 °C/68 °F 1.045 g/ml at 30 °C/86 °F 1.038 g/ml at 40 °C/104 °F |
| Relative vapor density: | No data available. |
| Particle characteristics | |
| Particle Size: | No data available. |
| Particle Size Distribution: | No data available. |

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| 10. Stability and reactivity |
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| Reactivity: | No data available. |
| Chemical Stability: | Stable in general. |
| Possibility of hazardous reactions: | Reacts with base. |
| Conditions to avoid: | Avoid contact with bases. |
| Incompatible Materials: | No data available. |
| Hazardous Decomposition Products: | No data available. |

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| 11. Toxicological information |
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Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50 (Rat): < 2,000 mg/kg (Data on similar product)
LD 50 (Rat): > 300 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: 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 1C: (21)
Sulfuric acid Category 1A: (87)

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

Alkyl(C10-16) benzene sulfonic acids Category 1: (21)
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 carcinogenic components identified

ACGIH:

No carcinogens present or none present in regulated quantities

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): 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: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

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: (21)

Chronic hazards to the aquatic environment

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Components:
 Alkyl(C10-16) benzene sulfonic acids Category 3: (21)

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.

Hazardous to the ozone layer: Not Regulated

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 sulfur oxides.

Contaminated Packaging: No data available.

14. Transport information

International regulations

IMDG

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| UN Number: | UN 2586 |
| UN Proper Shipping Name: | ALKYLSULPHONIC 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. |

IATA

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|-------------------------------|------------------------------------|
| UN Number: | UN 2586 |
| UN Proper Shipping Name: | Alkylsulphonic 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 | |
| Passenger and cargo aircraft: | Allowed. 852 |
| Cargo aircraft only: | Allowed. 856 |
| UN Proper Shipping Name (JP): | アルキルスルホン酸(液体) (遊離硫酸の含有率が5質量%以下のもの) |

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: 153

15. Regulatory information

Industrial Safety and Health Law

Specified Substances Regulation

Class 1 designated chemical substances:
 Not Regulated

Class 2 designated chemical substances:
 Not Regulated

Class 3 designated chemical substances:
 SULFURIC ACID

Ordinance on Prevention of Lead Poisoning:
 Not Regulated

Ordinance on Prevention of Tetraalkyl Lead Poisoning:
 Not Regulated

Notifiable substances (wt% is sometimes described by range because it's CBI.):
 Sulfuric acid 1 - 10%

Labeling substances:
 Sulfuric acid

Confirmed mutagens among the notified chemical substances:

Not Regulated

Confirmed mutagens among the existing chemical substances:

Not Regulated

Confirmed carcinogenic chemical substances:

Not Regulated

Industrial Safety and Health Ordinance, Art. 326, Corrosive Liquid:

Regulated

Poisonous and Deleterious Substances Control Act

Not Regulated

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

Not Regulated

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

Class 1 Substance(s):

n-Alkylbenzenesulfonic acids and their salts (alkyl C=10-14) 99%

Fire Service Act:

Group 4: Flammable liquids, Type 4 petroleums, Water soluble liquid, Designated Quantity (6000 litre)
 Hazardous rank III

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

Corrosive substances

Air Law, Enforcement Rule:

Corrosive substances

Explosives Control Act:

Not Regulated

High Pressure Gas Safety Act:

Not Regulated

Act on Prevention of Marine Pollution and Maritime Disaster:

Category: Y

Export Trade Control Order:

Not Regulated

Inventory Status:

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| 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 |

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| 16.Other Information |
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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.

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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
- (8): OECD SIDS
- (21): Estimation
- (87): EU CLP Regulation Annex VI