## CHEMBALL (HANGZHOU) CHEMICALS CO., LTD

According to UN GHS (the $8^{\text {th }}$ revised edition)

## Material Safety Data Sheet (MSDS)

| Product Name: | SODIUM NAPHTHALENE SULPHONATE |
| :--- | :---: |
| Model No.: |  |

Written by : $L$ inda (Linda)

Inspected by

(Jose)


ISSUED BY: TUV-Laboratory (China) Service of Testing Co., Ltd.

## Oct. 2021 PRINT

| Item No.: | NM36WJB |
| :--- | :--- |
| MSDS No.: | EMS.211.028.002.WJB |
| Initial Date: | Oct. 28,2021 |
| Revision Date: | Oct. 28,2021 |



## Material Safety Data Sheet

| MSDS No.: EMS. 21.028.002. WJ B | Initial Date: Oct. 28, 2021 | Version: 1.0 |
| :--- | :--- | :--- |
| Product Name: SODIUM NAPHTHALENE SULPHONATE | Revision Date: Oct. 28, 2021 | Item No.: NM36WJB |

## Section 1 Product and Company Identification

Product identification

| Product Name: | SODIUM NAPHTHALENE SULPHONATE |
| ---: | :--- |
| Model No:: | $/$ |
| HS code: | 38244010 |
| CAS No.: | $36290-04-7$ |
| EC No.: | $609-228-0$ |
| Molecular formula: | $2(C n H s S O s N a)) \cdot(n-1) \quad \mathrm{CH} 2(\mathrm{n}-2) \quad(\mathrm{CHsSOsNa})$ |

Relevant identified uses of the substance or mixture and uses advised against

|  | Multi-purpose dispersant, suitable for concrete admixtures, agricultural <br>  <br> ready-mixed concrete, armored concrete and pre-stressed reinforced <br> concrete in key construction projects such as dam and port construction, road <br> building\&town planning projects and dwelling erections etc. Suitable for <br> preparation of early-strength, high-strength, high-antifiltration and <br> seld-sealing\&pumpable concrete. Used for and wide for seld-cured, <br> vapor-cured concrete and its formulations. At early stage of application, <br> extremely prominent effects are shown. As the result, the modulus and site <br> utilization can be drastically, the procedure of vapor cure is omitted in <br> peak-heat summer days. Statistically 40-60 metric tons of coal will be <br> preserved when a metric ton of the material is consumed. Compatible with <br> Portland cement, normal Portland Cement, Portland slag cement,fly-ash <br> cement and Portland pozzolanic cement etc. |
| :---: | :--- |
| Uses advised against: | No special note |

Details of the applicant, supplier

| Company name: | CHEMBALL (HANGZHOU) CHEMICALS CO. LTD |
| ---: | :--- |
| Post code: | 311122 |
| Telephone: | $+86-19818279437$ |
| Fax: |  |

## Material Safety Data Sheet

```
MSDS No.:; EMS.21.028.002.WJ B
Product Name: SODIUM NAPHTHALENE SULPHONATE
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Initial Date: Oct . 28, 2021
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Version:: 1.0
Item No.: NM36WJB

## E-mail: shine@chemball.com

## Emergency telephone number

Emergency telephone: +86-571-86273270

## Section 2 <br> Hazard Description

Hazard class and label elements of the product according to GHS (the 8" revised edition)

## GHS Hazard class

Non-hazardous substance or mixture.

## GHS label elements

| Pictogram(s) : | No ne |
| ---: | :--- |
| Signal word: | None |

Hazard statements
Not applicable.

## Other Hazards

None.
Hazard description
<Physical and chemical hazards
Non-flammable,no special combustion and explosion characteristics.
Health hazards

| Inhalation: | May cause respiratory discomfort. |
| ---: | :--- |
| ängestion: | Abdominal pain and vomiting. |
| Skin contact: | Long term and repeated contact may be irritating. |
| Eye contact: | Redness,pain,tears. |

## Environmental hazards

Please refer to Section 12 of MSDS.


## Material Safety Data Sheet

| MSDS No.: EMS.211.028.002.WJB | Initial Date: Oct. 28, 2021 | Version: 1.0 |
| :--- | :--- | :--- |
| Product Name: SODIUM NAPHTHALENE SULPHONATE | Revision Date: Oct. 28, 2021 | Item No.: NM36WJB |

## Section 3 Composition/Ingredient Data

$\square$ Material
Mixture

| Component(s) | Content, $\%$ | CAS No. |
| :---: | :---: | :---: |
| SODIUM NAPHTHALENE SULPHONATE | $\geq 70.5$ | $36290-04-7$ |
| SODIUM SULFATE | $\leq 20.0$ | $7757-82-6$ |
| MOISTURE | $\leq 9.0$ | $7732-18-5$ |
| CHLORIDE | $\leq 0.5$ | $16887-00-6$ |

Main effective ingredient: Sodium Naphthalene Sulphonate Molecular Formula:
1 $2\left(\mathrm{C}_{10} \mathrm{H}_{6} \mathrm{SO}_{3} \mathrm{Na}\right) \cdot(\mathrm{n}-1) \mathrm{CH}_{2} \cdot(\mathrm{n}-2)\left(\mathrm{C}_{10} \mathrm{H}_{5} \mathrm{SO}_{3} \mathrm{Na}\right)$

## Section 4 <br> First Aid Measures

## Description of first aid measures

| General advice: | Show material this safety data sheet to the doctor in attendance. <br> After receiving the first-aid measure required, consult a physician if necessary. |
| :---: | :---: |
| Skin contact: | Remove contaminated clothing and shoes. <br> Wash off with mild soap and plenty of water. <br> If skin irritation occurs or persists, consult a physician immediately. |
| Eyes contact: | Check for and remove any contact lenses, occasionally lifting the upper and lower eyelids. Immediately flush eyes with running water, disappear until the chemical residues so far. <br> Provide a readily-accessible eyewash facility and quick-drench safety shower. Do not rub eyes with hands. <br> If skin irritation occurs or persists, consult a physician immediately. |
| Inhalation: | Move exposed person to fresh air. Maintain an open airway. Keep person warm and at rest. <br> If breathing is irregular, provide artificial respiration or oxygen by trained personnel. <br> Get medical attention if adverse health effects persist or are severe. |
| Ingestion: | Wash out mouth with water. <br> If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. |
|  | oted in full. Any use for advertising purposes must be granted in writing. This report of the object in question and is not generally applicable evaluation of the quality of |
| TUV-Laboratory (China) Sentice <br>  | sting Co., Ltd. Website: www.tuv-lab.com Tel: 4008-553-663  <br> Bao'an Dist, Shenzhen E-mail: report@tuv-lab.com Fax: 0755-3295 7866  |

## Material Safety Data Sheet

| MSDS No.: EMS.211.028.002.WJB | Initial Date: Oct. 28, 2021 | Version: 1.0 |
| :--- | :--- | :--- |
| Product Name: SODIUM NAPHTHALENE SULPHONATE | Revision Date: Oct. 28, 2021 | Item No.: NM36WJB |

Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel.
If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person.

## Most important acute and delayed symptoms/effects

1 The most important known symptoms and effects are described in section 2 and/or in section 11.

## Immediate/special treatment

1 Continue with first aid measures. Treat symptomatically and supportively.
2 Symptoms may be delayed.

## Section 5 Firefighting Measures

## | Extinguishing agent

Suitable extinguishing
agents:
Unsuitable extinguishing agents:

Use dry sand, dry chemical or $\mathrm{CO}_{2}$ foam extinguishing.
Water spray can be used to cool fire exposed containers/materials.
Use extinguishing media most appropriate for the surrounding fire.
Do not uses a solid water stream as it may scatter or spread fire.

## Special hazards arising from the substance or mixture

If this product is involved in a fire, the following can be released: Sodium oxides, carbon oxides, chlorine oxides, etc.

| 1 | Firefighters must wear self-contained breathing apparatus, wear full body fire suit, fire extinguishing in the upwind. |
| :---: | :---: |
| 2 | As far as possible will be transferred to empty containers from the scene. |
| 3 | Keep the fire water spray containers cooling, until the end of fire. |
| 4 | If the containers in the fire ground have been color, must be evacuated immediately. |
| 5 | Isolated accident scene, prohibit access. |
| 6 | Receiving and processing of fire water, to prevent environmental pollution. |



## Material Safety Data Sheet

| MSDS No.: EMS.211.028.002.WJB | Initial Date: Oct. 28, 2021 | Version: 1.0 |
| :--- | :--- | :--- |
| Product Name: SODIUM NAPHTHALENE SULPHONATE | Revision Date: Oct. 28, 2021 | Item No.: NM36WJB |

## Section 6 Accidental Release Measures

## | Personal precautions, protective equipment and emergency procedures

| $\mathbf{1}$ | No action shall be taken involving any personal risk or without suitable training. |
| :--- | :--- |
| $\mathbf{2}$ | Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. |
| $\mathbf{3}$ | Do not touch or walk through spilt material, avoid slipping. |
| $\mathbf{4}$ | Avoid breathing dusts. |
| $\mathbf{5}$ | Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. |
| $\mathbf{6}$ | Put on appropriate personal protective equipment (see section 8 ). |

## I Environmental precautions

1 Prevent further leakage or spillage if safe to do so.
2 Discharge into the environment must be avoided.

## Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Collect mechanically. Keep in suitable, closed containers for disposal.

2
Disposal: Contaminated material must be disposed of in accordance with all State and/or Local regulations.

## Section 7 Handling and Storage

| Precautions for safe handling |  |
| :--- | :--- |
| $\mathbf{1}$ | Avoid formation of dust and aerosols. |
| $\mathbf{2}$ | Put on appropriate personal protective equipment (see section 8). |
| $\mathbf{3}$ | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and <br> processed. |
| $\mathbf{4}$ | Workers should wash hands and face before eating, drinking and smoking. Avoid contact eyes. <br> Avoid breathing dust. |
| $\mathbf{5}$ | Provide suitable exhaust equipment. Operate in a well-ventilated place. |
| $\mathbf{6}$ | Normal measures for preventive fire protection. Keep away from heat/open flames/hot surfaces. |
| $\mathbf{7}$ | Observe good housekeeping procedures and hygiene practices. |



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| MSDS No.: EMS.211.028.002.WJB | Initial Date: Oct. 28, 2021 | Version: 1.0 |
| :--- | :--- | :--- |
| Product Name: SODIUM NAPHTHALENE SULPHONATE | Revision Date: Oct. 28, 2021 | Item No.: NM36WJB |

8 Provide for appropriate exhaust ventilation and dust collection at machinery.
9 Wash thoroughly after handling.
Persons with a history of skin sensitization problems should not be employed in any process in which this product is used.
11 Handling carefully to prevent damage the packaging and container.

## Precautions for storage

1
Store in accordance with local regulations. Stored in a dry, cool and well-ventilated area. Keep container tightly closed.

2
Avoid direct sunlight. Keep away from open flames and high temperatures, away from incompatible materials (see section 10).

3
Moisture-proof and water-proof.
4 Keep out of reach of children and pets.

## Section 8 Exposure Controls/Personal Protection

## | Control parameters

## Occupational Exposure limit values

1 There is no known exposure limits prescribed by the state.

## Engineering controls

1 Ensure adequate ventilation, especially in confined areas.
2
Ensure that eyewash stations and safety showers are close to the workstation location.

## Personal protection

General requirements:

Respiratory protection:

Eye protection:
Skin and body protection:


Where protection from nuisance le (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Wear safety glasses when there is a potential for eye contact.
Wear suitable protective clothing and boots.

Page 6 of 14

## Material Safety Data Sheet

| MSDS No.: EMS.211.028.002.WJB | Initial Date: Oct. 28, 2021 | Version: 1.0 |
| :--- | :--- | :--- |
| Product Name: SODIUM NAPHTHALENE SULPHONATE | Revision Date: Oct. 28, 2021 | Item No.: NM36WJB |
| - |  |  |

Hands protection:

Wear protective gloves.
Check protective gloves prior to each use for their proper condition. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

## Section 9 Physical and Chemical Properties

## Information on basic physical and chemical properties

| Appearance and character: | Light brown powder, solid |
| :---: | :---: |
| Odor: | Mild |
| Melting point/freezing point ( ${ }^{\circ} \mathrm{C}$ ): | No data/Not applicable |
| Initial boiling point and boiling range ( ${ }^{\circ} \mathrm{C}$ ): | No data/Not applicable |
| Flash point ( ${ }^{\circ} \mathrm{C}$ ): | No data/Not applicable |
| Evaporation rate: | No data/Not applicable |
| Steam pressure ( $20^{\circ} \mathrm{C}$ ): | No data/Not applicable |
| Relative density (water=1): | No data/Not applicable |
| Partition coefficient: n-octanol/water: | No data/Not applicable |
| Decomposition temperature $\left({ }^{\circ} \mathrm{C}\right)$ : | No data/Not applicable |
| Auto ignition temperature $\left({ }^{\circ} \mathrm{C}\right):$ | No data/Not applicable |
| pH value: | 7.95 |
| Explosion limit [\% (v/v) ]: | Non-explosive |
| Relative vapor density(air=1): | No data |
| Solubility: | Soluble in water |
| Flammability (solid, gas): | Non-flammable |
| Oxidizing properties: | The substance does not belong to oxidizing substances |

Page 7 of 14

## Material Safety Data Sheet

| MSDS No.: EMS.211.028.002.WJB | Initial Date: Oct. 28, 2021 | Version: 1.0 |
| :--- | :--- | :--- |
| Product Name: SODIUM NAPHTHALENE SULPHONATE | Revision Date: Oct. 28, 2021 | Item No.: NM36WJB |
| Water reduction rate (\%): | $18 \sim 28$ |  |

## Stability and Reactivity

| Stability: | The product is chemically stable. |
| ---: | :--- |
| Reactivity: | Stable under recommended storage and handling conditions. |
| Incompatible materials: | Strong oxidizing agents, strong acids and strong bases. |
| Conditions to avoid: | In contrast to the nature of the material, direct sunlight, water, high temperature <br> and open fire. |
| Hazardous | Under normal conditions of storage and use, hazardous decomposition <br> decomposition products: |

## Section 11 Toxicological Information

## Acute toxicity

| Component(s) | CAS No. | LD $_{50}$ (Oral) | LD $_{50}$ (Dermal) | LC 50 (Inhalation) |
| :---: | :---: | :---: | :---: | :---: |
| SODIUM SULFATE | $7757-82-6$ | Mouse: $5989 \mathrm{mg} / \mathrm{kg}$ | No data | No data |


| Skin corrosion/irritation: | According to the existing data, the product is not classified. <br> Long term and repeated contact may cause skin irritation. |
| ---: | :--- |
| Eye corrosion/irritation: | Irritating effect possible. |
| Respiratory <br> sensitization: | These products are not known to cause human respiratory sensitization. |
| Skin sensitization: | These products are not known to cause skin sensitization. |
| Germ cell mutagenicity: | According to the existing data, the product is not classified. |
| Reproductive toxicity: | According to the existing data, the product is not classified. |
| Specific target organ <br> Coxicity - single exposure: | According to the existing data, the product is not classified. |

## Material Safety Data Sheet

| MSDS No.: EMS.211.028.002.WJB | Initial Date: Oct. 28, 2021 | Version: 1.0 |
| :--- | :--- | :--- |
| Product Name: SODIUM NAPHTHALENE SULPHONATE | Revision Date: Oct. 28, 2021 | Item No.: NM36WJB |



Aspiration hazard:
Additional reproductive toxicity hazards:

According to the existing data, the product is not classified.

According to the existing data, the product is not classified.
According to the existing data, the product is not classified.

## Section 12

## Ecological Information

## Aquatic toxicity

Acute/Chronic aquatic toxicity:

This product contains no hazardous or toxic substances, and presents a negligible impact on the environment based on its reported use pattern.

## Persistence and degradability

> | Persistence: | The products are usually with natural biodegradable. |
| :--- | :--- |

## Bioaccumulative potential

| Bioaccumulation: | The potential for bioaccumulation of this material in aquatic organisms is low. |
| :--- | :--- |

## Mobility in soil

Mobility: Will penetrate into the soil, will be dissolved in the soil material.

## Other adverse effects

Under environmental conditions, is not expected to have a detrimental effect on plants, animals or microorganisms. But do not allow material to be released to the environment without proper governmental permits.

## Section 13 Disposal Considerations

## Waste disposal



Before disposal should refer to the relevant national and local laws and regulation.
The generation of waste should be avoided or minimized wherever possible. Recommended landfill or transfer to a suitable container and arrange for collection by specialized disposal company if recycling is not feasible.
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## Material Safety Data Sheet

| MSDS No.: EMS.211.028.002.WJB | Initial Date: Oct. 28, 2021 | Version: 1.0 |
| :--- | :--- | :--- |
| Product Name: SODIUM NAPHTHALENE SULPHONATE | Revision Date: Oct. 28, 2021 | Item No.: NM36WJB |

packaging:

Disposal considerations:

Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Dispose of container and unused contents in accordance with national and local relevant regulations laws.

## Section 14 Transport Information

## Transport rules

According to IATA DGR $62^{\text {nd }}$ Edition for transportation, IMO International Maritime Dangerous Goods Code (Amendment 39-18), European Agreement Concerning the International Carriage of Dangerous Goods by Road. The products are not subject to IATA DGR, IMDG and ADR/RID.

## Label(s) required

> | Label(s): | None |
| :--- | :--- |

Road transport (UN-ADR)

| UN number: | Not regulated |
| ---: | :--- |
| UN proper shipping |  |
| name: |  | Not regulated $\quad$ Transport hazard | class(es)-Main: | Not regulated |
| ---: | :--- |
| Transport hazard <br> class(es)-Sub risk: | None |
| Packaging group: | Not regulated |
| Special provisions: | None |
| Hazard code: | None |

Air transport (ICAO-IATA/DGR)

| UN number: | Not regulated |
| ---: | :--- |
| UN proper shipping | not regulated |
| Transport hazard <br> class(es)-Main: | Not regulated |
| Transport hazard | None |

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## Material Safety Data Sheet

| MSDS No.: EMS.211.028.002.WJB <br> Product Name: SODUM NAPHTHALENE SULPHONATE |  | Initial Date: Oct. 28, 2021 <br> Revision Date: Oct. 28, 2021 | Version: 1.0 <br> Item No.: NM36WJB |
| ---: | :--- | :--- | :--- |
| class(es)-Sub risk: |  |  |  |
| Packaging group: | Not regulated |  |  |
| Special provisions for <br> transportation | None |  |  |
| ERG code: | None |  |  |

## Sea transport (IMDG-CODE)

| UN number: | Not regulated |
| ---: | :--- |
| UN proper shipping <br> name: | Not regulated |
| Transport hazard <br> class(es)-Main: | Not regulated |
| Transport hazard <br> class(es)-Sub risk: | None |
| Packaging group: | Not regulated |
| Special provisions for <br> transportation: | None |
| Marine pollutants |  |
| (Yes/No): | No |
| EmS No.: | None |

## Section 15 Regulatory Information

Regulatory information:
Reference to the local, national, US, EU, CA and international regulations.

| CAS No. | TSCA | EINECS | DSL | IECSC | NZIOC | PICCS | KECI | AICS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $36290-04-7$ | $\checkmark$ | $\times$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| $7757-82-6$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| $7732-18-5$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| $16887-00-6$ | $\times$ | $\times$ | $\times$ | $\checkmark$ | $\checkmark$ | $\times$ | $\times$ | $\times$ |


| TSCA: | United States Toxic Substances Control Act Inventory |
| ---: | :--- |
| EINECS: | European Inventory of Existing Commercial Chemical Substances |

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Page 11 of 14

## Material Safety Data Sheet

| MSDS No.: EMS.211.028.002.WJB | Initial Date: Oct. 28, $\mathbf{2 0 2 1}$ | Version: 1.0 |
| :--- | :--- | :--- |
| Product Name: SODIUM NAPHTHALENE SULPHONATE | Revision Date: Oct. 28, 2021 | Item No.: NM36WJB |


| DSL: | Canadian Domestic Substances List |
| ---: | :--- |
| IECSC: | China Inventory of Existing Chemical Substances |
| PICCS: | Philippines Inventory of Chemicals and Chemical Substances |
| KZloC: | New Zealand Inventory of Chemicals |
| KECI: | Existing and Evaluated Chemical Substances |
| $\star$ Note: | "list of existing chemical substances in Australia |
| $\times x$ " That no data or included in the regulations |  |

## Section 16 Other Information

## Abbreviations or phrases

| ACGIH: | American Conference of Governmental Industrial Hygienists |
| ---: | :--- |
| ADR: | European Agreement concerning the International Carriage of Dangerous <br> Goods by Road |
| CAS: | Chemical Abstracts Service |
| EC: | Classification, labeling and packaging |
| ECHA: | European Chemicals Agency of Europe |
| GHS: | Globally Harmonized System of Classification and Labelling of Chemicals |
| IARC: | International Agency for Research on Cancer |
| RID: | International Air Transport Association |
| ICAO: | Regulation for rail International transportation of Dangerous goods |
| IMDG: | International Maritime Dangerous Goods Code |
| IC $50:$ | Inhibitory Concern Triton 50\% |
| LC $50:$ | Lethal Concentration $50 \%$ |
| LD $50:$ | Median Lethal Dose $50 \%$ |

## Material Safety Data Sheet

| MSDS No.: EMS.211.028.002.WJB | Initial Date: Oct. 28, 2021 | Version: 1.0 |
| :--- | :--- | :--- |
| Product Name: SODIUM NAPHTHALENE SULPHONATE | Revision Date: Oct. 28, 2021 | Item No.: NM36WJB |


| MAPROL: | International Convention for the Prevention of Pollution from Ships |
| ---: | :--- |
| REACH: | REGULATION concerning the Registration, Evaluation, Authorization and <br> Restriction of Chemicals |
| STEL: | Short Term Exposure Limit |
| MAC: | Maximum Allowable Concentration |
| OSHA: | Occupational Safety and Health Administration Weighted Average |
| NIOSH: | National Institute for Occupational Safety and Health |
| TLV: | Threshold Limit Value |
| TLV- STEL: | Threshold Limit Value-Short term Exposure Limit |
| PC-TWA: | Permissible Concentration-Time Weighted Average |
| PC-STEL: | Permissible Concentration-Short Term Exposure Limit |
| PEL: | Permissible Exposure Limit |
| OELs: | Occupational Exposure Limits |


| Reference |  |
| :--- | :--- |
| $\mathbf{1}$ | IARC |
| $\mathbf{2}$ | OECD: The Global Portal to Information on Chemical Substances |
| $\mathbf{3}$ | U.S. Department of Transportation: ERG |
| $\mathbf{4}$ | Germany GESTIS-database on hazard substance |
| $\mathbf{5}$ | CAMEO Chemicals |
| $\mathbf{6}$ | NLM: ChemIDplus |
| $\mathbf{7}$ | EPA: Integrated Risk Information System |
| $\mathbf{8}$ | IPCS: The International Chemical Safety Cards (ICSC) |

## Disclaimer

The above information is believed to be correct but we can not guarantee the absolute universality and accuracy and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.


Material Safety Data Sheet

| MSDS No.: EMS.211.028.002.WJB | Initial Date: Oct. 28, 2021 | Version: 1.0 |
| :--- | :--- | :--- |
| Product Name: SODIUM NAPHTHALENE SULPHONATE | Revision Date: Oct. 28, 2021 | Item No.: NM36WJB |

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Product photo(s)


***END OF REPORT***



