Samchun Chemicals

Material Safety Data Sheet

Dodecyl sulfate sodium salt

Section 1 – PRODUCT AND COMPANY IDENTIFICATION

1. Product Identifier Dodecyl sulfate sodium salt;Sodium lauryl sulfate

2. Recommended Use & Uses advised against Uses for Laboratory and R&D only

3. Information of Supplier

SAMCHUN PURE CHEMICAL CO.,LTD
ADDRESS; (Mogok-dong) 117, Sandan-ro 16Beon-gil, Pyeongtaek-si, Gyeonggi-do, Korea
Emergency Phone; 82-31-668-0700/3
Department; Safety & Environment dep.
Web site; http://www.samchun.com

Section 2 – HAZARDS and DANGER IDENTIFICATION

1.GHS Classification· Identification

Flammable solid	Category2
Acute toxic(Oral)	Category4
Acute toxic(Skin)	Category4
Skin Corrosion/Skin Irritation	Category2
Serious Eye Damage/Eye Irritation	Category2

2. Label and Mark including Precautionary Statement

◦**Label elements**



◦**Signal word** Warning

◦**Hazard · Danger statement**

H228 Flammable solid
H302 Harmful if swallowed
H312 Harmful in contact with skin
H315 Causes skin irritation
H319 Causes serious eye irritation

◦**Precautionary statement**

Precaution

P210 Keep away from heat/sparks/open flames/hot surfaces. . No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/.../ equipment.
P280 Wear protective gloves/protective clothing/eye protection/face protection
P264 Wash ... thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.

Measures

P370+P378 In case of fire: Use (Section 5. explosions, according to the fire-fighting extinguishing agent suitable method) for extinction
P330 Rinse mouth.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P321 Specific treatment (see Seciton 4. on this label).

Measures P302+P352 IF ON SKIN: Wash with plenty of water / (...)
P361+P364 Take off immediately all contaminated clothing, Wash before reuse
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash before reuse
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 If eye irritation persists: Get medical advice/attention.

Storage N/A

Dispose P501 Dispose of contents/container under related law and regulations

3. Other Hazard-Risk which are not included in the classification criteria

NFPA index(0~4steps) : Health=2, Fire=1, Reaction=0

Section 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name	Other Name	CAS No.	Content (%)
Dodecyl sulfate sodium salt	Sodium lauryl sulfate	151-21-3	100

Section 4 – FIRST AID MEASURES

1. Eye Contact Rinse with plenty of water for at least 15minutes and get medical attention immediately.

2. Skin Contact Take off contaminated cloths and shoes immediately, wash with plenty of water and soap for at least 15minutes.

3. Inhalation Move victim to fresh air. If breathing is difficult, give artificial respiration and get medical attention immediately.

4. Ingestion Do not induce vomiting. Get medical advice/attention immediately.

5. Immediate medical attention and Notes for physician Keep the medical personnel aware of the materials involved and take protective action.

Section 5 – FIRE-FIGHT MEASURES

1. Suitable extinguish media Extinguishing powder, extinguishing foam, water, carbon dioxide
Inappropriate Extinguishing Media: N/A

2. Special hazards arising from the substance Decomposition products: sulfur oxides, carbon oxides, sodium oxide

3. Special protective equipment and Precautions for fire-fighters Move containers from fire area if you can do it without risk. When extinguishing a fire, be sure to wear personal protective equipment.
If it is not possible to extinguish the fire, withdraw immediately. Keep containers cool by spraying with water for a long time, even after the fire is out. Isolate hazardous areas and deny access to people.

Section 6 – ACCIDENTIAL RELEASE MEASURES

1.Personal precautions and Emergency procedures Do not touch spilled material. Avoid inhalation and skin contact. In case of confined space, wear air respirator and ventilate and remove all sources of ignition.

2. Environmental precautions Minimize leak/spill, collect and keep leak/spill in container

3. Methods and material for containment and cleaning up Remove residue with high-efficient cleaner

Section 7 – HANDING AND STORAGE

1. Precautions for safe Handling Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. All containers should be grounded.

2. Conditions for safe storage Keep container tightly closed in a dry, cool and well-ventilated place. Keep away from incompatible materials.

Section 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

1.Occupational exposure limit, biological exposure limit
National law of Safety management of
N/A

2. Appropriate Engineering controls Ensure compliance with applicable exposure limits and operate local exhaust ventilation when working.

3. Personal protective equipment

◦**Respiratory protection** Because it is concerned about the harmfulness of human body due to chemical substances, it is recommended to wear respiratory protective equipment with dust mask or dust filter in consideration of physical and chemical characteristics when handling.
Respiratory protection should be certified by the Health and Safety Authority.
It is concerned about the harmfulness of the human body depending on the working environment, it should wear respirator, air-purifying respirator.

◦**Eye-protection** Wear safety glasses when handling as they may cause human health hazards due to chemicals. Install eye wash facilities and emergency eyewash stations near chemical handling sites

◦**Hand protection** Wear safety gloves when handling, as it is likely to harm human health due to chemicals

◦**Skin and body proticion** Wear chemical protective clothing when handling, as it is likely to harm human health due to chemicals

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

1.Physical state and color	Solid(White, Light Yellow)	**2.Odor**	Very mild odor
3.threshold	N/A	**4. pH**	8.5-10(1% aq. Sol)
5.Melting/Freezing point	206℃	**6.Boiling point/range**	N/A
7. Flashing point	> 100℃	**8. Evaporation speed**	N/A
9. Flammability(solid,gas)	N/A	**10. Flash or Explosion limit upper / lower**	N/A
11. Vapor pressure	N/A	**12. Solubility**	10%
13. Vapor density	N/A	**14.Gravity**	> 1.1
15. n-octanol-water Partition coefficient	1.60	**16. Self ignition temp(℃)**	N/A
17. Cracking temp(℃)	N/A	**18. Viscosity**	N/A
19. Molecular Weight	288.38		

Section 10 – STABILITY AND REACTIVITY

1.Chemical stability and Possibility of Hazardous Reactions Stable under normal temp. and pressure
Not polymerize

2. Conditions to Avoid Avoid heat, sparks, flames, static electricity and other sources of ignition.
Avoid contact with prohibited substances.

3. Incompatible Materials Oxidant

4. Hazardous Decomposition Products Thermal decomposition products: sulfur oxides, carbon oxides, sodium oxides

Section 11 – TOXICOLOGICAL INFORMAION

1. Information on the likely routes of exposure.
Nausea, vomiting, skin irritation, skin irritation, eye irritation

2. Health hazard information

◦**Acute toxic**
Oral : LD50 1200 mg/kg Rat
Skin : LD50 600 mg/kg Rabbit
Inhalation : N/A

◦**Serious skin corrosive / irritation** Causes skin irritation. (eczema)

◦**Serious eye damage / irritation**	Causes eye irritation
◦**Respiratory sensitization**	N/A
◦**Skin sensitization**	N/A
◦ **Carcinogenicity**	N/A
◦ **Germ cell Mutagenicity**	Return Mutation Test: Negative Sister chromosome exchange test: negative Micronucleus test: negative
◦ **Reproductive toxic**	N/A
◦**Specific target organ toxicity (single exposure)**	N/A
◦**Specific target organ toxicity (repeated exposure)**	N/A
◦**Aspiration hazard**	N/A

Section 12 – ECOLOGICAL INFORMATION

1.Acquatic and Terrestrial eco toxicity	Fish toxicity : LC50 1.31 ㎎/ℓ 96 hr Cyprinus carpio Invertebrate toxicity : EC50 6 ㎎/ℓ 48 hr Daphnia magna Sea algae : EC50 1.2 ㎎/ℓ 96 hr Skeletonema costatum
2.Persistence and degradability	Persistence : log Kow 1.60 Degradability : N/A
3.Bioaccumulative potential	Concentrations : BCF 2.1 ~ 7.1 Bioaccumulative : 100 (%) 28 day
4.Mobility in soil	N/A
5.Other adverse effects	N/A

Section 13 – Disposable considerations

1.Waste methods	Dispose in accordance with local regulations.
2.Waste warning	Dispose prohibited substances and waste separately from others.

Section 14 – TRANSPORT INFORMATION

1. UN No.	1325
2.Proper shipping Name	Flammable solid, organic, N.O.S.*
3.Hazard class	4.1
4.Packing group	Ⅲ
5.Marine pollutnat	N/A
6.Particular safety Measures for transportation	Fire emergency : F-A Emergency measures RELEASE : S-G

Section 15 – REGULATARY INFORMATION

1.Occupation safety and health acts	Non-described
2. Chemical Substances Control Act	Non-described
3. National law of Safety management of hazardous material	Non-described
4.National law of management of Wastes	Designated Waste
5.Other domestic and foreign law	Non-described

Section 16 – OTHER INFORMATION

1. Material source	A chemical information MSDS Safety and Health Agency National Institute of Environmental Research Chemical Information Systems

	Korea Industrial Technology National Fire Hazardous Materials Information System
1. The 1st edition	2002.07.30
2. Revision and The final revision	5 / 2019.01.03

. Other references

*** The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.**