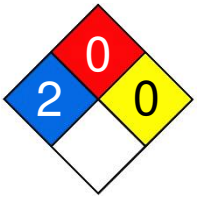
Material Safety Data Sheets



Revision 2

1. IDENTIFICATION

Product Name	**Sodium Sulphate Anhydrous**
Other Names	Bisodium sulfate; Dibasic sodium sulfate; sodium sulfate; Sodium sulfate, anhydrous; Sulfuric acid, disodium salt
Code No	200-SSA-2
Uses	Raw materials of washing powder, printing and dyeing, glass industry.
Chemical Family	No Data Available
Chemical Formula	Na_2SO_4
Chemical Name	Sodium Sulphate Anhydrous
Product Description	No Data Available
Company	Arman sina.co
Contact Information	info@armansina.com www.armansina.com

2. HAZARD IDENTIFICATION

Hazard Classification irritation

Symbol

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Sodium Sulphate	Na_2SO_4	7757-82-6	>=99.00 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	**Rinse mouth with water. Give several glasses of water to drink to dilute. Do NOT induce vomiting. If symptoms develop, or if large amounts were swallowed, seek medical attention.**
Eye	**Immediately flush eyes with plenty of water for 15 minutes, holding eyelids open. Seek immediate medical attention.**
Skin	**Remove contaminated clothing. Wash exposed area with plenty of soap and water. If irritation persists, seek medical attention. Launder clothes before re-use.**
Inhaled	**Remove victim from exposure to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.**
Advice to Doctor	**Treat symptomatically based on judgement of doctor and individual reactions of patient.**
Medical Conditions Aggravated by Exposure	**No information available on medical conditions aggravated by exposure to this product.**

5. FIRE FIGHTING MEASURES

General Measures	**Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.**
Flammability Conditions	**Product is a non-flammable solid.**
Extinguishing Media	**Water spray, foam, dry chemical powder, carbon dioxide.**
Hazardous Products of Combustion	**The material is non flammable, however under fire conditions it may decompose to give off sulphur dioxide.**
Special Fire Fighting Instructions	**Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.**
Personal Protective Equipment	**Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).**
Flash Point	**No Data Available**
Lower Explosion Limit	**No Data Available**
Upper Explosion Limit	**No Data Available**
Auto Ignition Temperature	**No Data Available**
Hazchem Code	**No Data Available**

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	**Avoid accidents, clean up immediately. Slippery when spilt. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Use clean, non-sparking tools and equipment. Do NOT expose spill to water.**
Clean Up Procedures	**Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labelled container and dispose of promptly.**
Containment	**Stop leak if safe to do so. Isolate the danger area.**
Environmental Precautionary Measures	**Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management.**
Evacuation Criteria	**Evacuate all unnecessary personnel.**

7. HANDLING AND STORAGE

Handling	**Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes. Do NOT allow contact with water.**
Storage	**Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Store protected from rain and moisture. Prolonged storage may result in lumping or caking. Protect from direct sunlight. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.**
Container	**Store in original packaging as approved by manufacturer.**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	**No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). However, the exposure standard for dust not otherwise specified is 10mg/m3 (for inspirable dust) and 3mg/m3 (for respirable dust).**
Exposure Limits	**No Data Available**
Biological Limits	**No information available on biological limit values for this product.**
Engineering Measures	**A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Adequate ventilation should be provided so that exposure limits are not exceeded.**
Personal Protection Equipment	**RESPIRATOR: Wear an effective dust mask where dusts/vapours are generated and engineering controls are inadequate (AS1715/1716). EYES: Safety glasses with side shields or chemical safety goggles (AS1336/1337). HANDS: Wear protective gloves (AS2161). CLOTHING: Long-sleeved protective clothing and safety footwear (AS3765/2210).**
Work Hygienic Practices	**Ensure work area is equipped with safety shower and eye bath.**

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	**Solid**
Appearance	**Fine granules or powder.**
Odour	**Odourless**
Colour	**White**
pH	**6-8**
Vapour Pressure	**No Data Available**
Relative Vapour Density	**No Data Available**
Boiling Point	**No Data Available**
Melting Point	**888ºC**
Freezing Point	**No Data Available**
Solubility	**Soluble**
Specific Gravity	**2.68**
Flash Point	**No Data Available**
Auto Ignition Temp	**No Data Available**
Evaporation Rate	**No Data Available**
Bulk Density	**1.1 - 1.6 g/cm3**
Corrosion Rate	**No Data Available**
Decomposition Temperature	**No Data Available**
Density	**2.68 g/cm3**
Specific Heat	**No Data Available**
Molecular Weight	**No Data Available**
Net Propellant Weight	**No Data Available**
Octanol Water Coefficient	**No Data Available**
Particle Size	**No Data Available**
Partition Coefficient	**No Data Available**
Saturated Vapour Concentration	**No Data Available**
Vapour Temperature	**No Data Available**
Viscosity	**No Data Available**
Volatile Percent	**No Data Available**
VOC Volume	**No Data Available**
Additional Characteristics	**Easily soluble in water. Can be dissolved in glycerin. Insoluble in alcohol. Extremely hygroscopic.**
Potential for Dust Explosion	**No Data Available**

Fast or Intensely Burning Characteristics	No Data Available
Flame Propagation or Burning Rate of Solid Materials	No Data Available
Non-Flammables That Could Contribute Unusual Hazards to a Fire	No Data Available
Properties That May Initiate or Contribute to Fire Intensity	No Data Available
Reactions That Release Gases or Vapours	No Data Available
Release of Invisible Flammable Vapours and Gases	No Data Available

10. STABILITY AND REACTIVITY

General Information	Product is extremely hygroscopic. Its accessibility makes it easily become monohydrated salt when it is exposed to the air.
Chemical Stability	Product is stable under normal conditions of use, storage and temperature.
Conditions to Avoid	Dust generation, moisture, excess heat.
Materials to Avoid	Strong oxidizing agents, strong acids. In combination with sodium sulfate, aluminum and magnesium will explode at 800 deg C.
Hazardous Decomposition Products	The material is non flammable, however under fire conditions it may decompose to give off sulphur dioxide.
Hazardous Polymerisation	Will not occur.

11. TOXICOLOGICAL INFORMATION

General Information	Oral LD50 mouse: 5989mg/kg
EyeIrritant	Dust may cause mechanical irritation, redness and pain.
Ingestion	May cause gastrointestinal irritation.
Inhalation	Inhalation of powder may cause irritation to the nose and throat and cause coughing and eventually chest discomfort.
SkinIrritant	May cause skin irritation. May cause an allergic reaction in certain individuals.
Carcinogen Category	No Data Available

12. ECOLOGICAL INFORMATION

Ecotoxicity	LC50: 12750 ppm (96 hr, static bioassay, Bluegill Sunfish) LC50: 13500 - 14000 mg/L (24 - 96 hr, unspecified, Flathead Minnow) This chemical is not expected to cause oxygen depletion in aquatic systems. It has a low potential to affect the aquatic organisms and is expected to have a low potential to affect secondary waste treatment microorganisms. This chemical is not likely to bioconcentrate.
Persistence/Degradability	No Data Available
Mobility	Soluble in water.
Environmental Fate	Avoid contaminating waterways, drains and sewers.
Bioaccumulation Potential	Sodium sulfate may persist indefinitely in the environment, but is not likely to show bioaccumulation or food chain contamination effects. If diluted with water, this chemical released directly or indirectly into the environment is not expected to have significant impact on the environment.
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	Dispose of in accordance with all local regulations. All empty packaging should be disposed of in accordance with Local Regulations or recycled/reconditioned at an approved facility.
Special Precautions for Land Fill	Contact a specialist disposal company or the local waste regulator for advice.

14. TRANSPORT INFORMATION

Land Transport

Proper Shipping Name	Sodium Sulphate Anhydrous
Class	No Data Available
Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available

Sea Transport
IMDG Code

Proper Shipping Name	Sodium Sulphate Anhydrous
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
EMS	No Data Available
Marine Pollutant	No

Air Transport
IATA

Proper Shipping Name	Sodium Sulphate Anhydrous
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available

15. OTHER INFORMATION

Revision	2
Key/Legend	< Less Than > Greater Than atm Atmosphere CAS Chemical Abstracts Service (Registry Number) cm Square Centimetres CO2 Carbon Dioxide COD Chemical Oxygen Demand

Degrees Celcius
Degrees Farenheit
g Grams
g/cm Grams per Cubic Centimetre
g/l Grams per Litre
HSNO Hazardous Substance and New Organism
IDLH Immediately Dangerous to Life and Health
immiscible Liquids are insoluable in each other.
inHg Inch of Mercury
inH2O Inch of Water
K Kelvin
kg Kilogram
kg/m Kilograms per Cubic Metre
lb Pound
LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.
ltr or L Litre
m Cubic Metre
mbar Millibar
mg Milligram
mg/24H Milligrams per 24 Hours
mg/kg Milligrams per Kilogram
mg/m Milligrams per Cubic Metre
Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.
mm Millimetre
mmH2O Millimetres of Water
mPa.s Millipascals per Second
N/A Not Applicable
NIOSH National Institute for Occupational Safety and Health
NOHSC National Occupational Heath and Safety Commission
OECD Organisation for Economic Co-operation and Development
Oz Ounce
PEL Permissible Exposure Limit
Pa Pascal
ppb Parts per Billion
ppm Parts per Million
ppm/2h Parts per Million per 2 Hours
ppm/6h Parts per Million per 6 Hours
psi Pounds per Square Inch
R Rankine
RCP Reciprocal Calculation Procedure
STEL Short Term Exposure Limit
TLV Threshold Limit Value
tne Tonne
TWA Time Weighted Average
ug/24H Micrograms per 24 Hours
UN United Nations
wt Weight