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Version:01

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SULPHURIC ACID 50% CAS Number: 7664-93-9

1. IDENTIFICATION:

Product Code : 93263

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

Address W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE,

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Company Phone Number : 022-27690837

2. HAZARDS IDENTIFICATION:

Hazard classification

Physical hazards

Corrosive to Metals : Category 1

Health hazards

Hazard symbol

Signal word

Skin corrosion : Sub-category 1A

Serious eye damage : Category 1

Labels elements :

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Hazard statement May be corrosive to metals.

Causes severe skin burns and eye damage.

Precautionary statement

Prevention: Obtain special instructions before use.

Danger

Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety

precautions have been read and understood.

Wear protective gloves/ protective clothing/ eye protection/ face protection. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

Keep container tightly closed. Ground/ bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools. Take precautionary measures against static discharge.

Response : IF exposed or concerned: Get medical advice/ attention.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.



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: Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are Storage opened must be carefully resealed and kept upright to prevent leakage.

Disposal Dispose of contents/container to an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product characteristics at time of

disposal.

Other hazards which do not :

result in GHS classification

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at

levels of 0.1% or higher.

COMPOSITION/ INFORMATION ON INGRADIENTS:

Ingredient **CAS Number** Percent **Hazardous** Sulphuric Acid 50% 7664-93-9 49.0 - 51.0% Yes

Component	Classification	Concentration
Sulphuric Acid		
CAS- NO:- 7664-93-9	Met. Corr. 1; Skin Corr. 1A; Eye Dam. 1; H290, H314, H318 Concentration limits: >= 15 %: Skin Corr. 1A, H314; 5 - < 15 %: Skin Irrit. 2, H315; 5 - < 15 %:	>= 30 - < 50 %

4. FIRST AID MEASURES:

General information : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in

attendance.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do NOT induce

vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the

lungs.

Move to fresh air. Call a physician or poison control center immediately. If breathing stops,

Inhalation provide artificial respiration. If breathing is difficult, give oxygen.

Get medical attention if symptoms persist.

Skin contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact

lenses. Get medical attention.

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact Eye contact

lenses. Get medical attention.

Most important

symptoms/effects, acute

and delayed

Indication of immediate medical attention and

special treatment needed

: The most important known symptoms and effects are described in the labeling.

: No data available.

FIRE FIGHTING MEASURES:

General information : Flammable liquid and vapor.

Suitable (and unsuitable) extinguishing media



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Suitable extinguishing

media

: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing

media

Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical

Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Vapor from the solvent may accumulate in container headspace resulting in flammability hazard. Heat may cause the containers to explode.

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Special protective equipment and precautions for firefighters

Special firefighting

procedures

Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so

without risk.

Special protective

equipment for fire-fighters

Firefighters must use standard protective equipment including flame retardant coat, helmet

with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning

up

Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk.

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures

Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

dispensing, and disposal of flammable liquids.

Environmental precautions

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

HANDLING AND STORAGE:

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye

protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling,



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8. EXPOSURE CONTROLS PERSONAL PROTECTION:

Control parameters

General information

Hygiene measures

Appropriate engineering

controls : No data available

Individual protection measures, such as personal protective equipment

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust

ventilation, or other engineering controls to maintain airborne levels below recommended

exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work

area. Use explosion-proof ventilation equipment.

Eye/face protection . Wear safety glasses with side shields (or goggles).

Hand protection . Chemical resistant gloves.

Other . Wear suitable protective clothing.

Respiratory protection In case of inadequate ventilation use suitable respirator. Chemical

Respirator with organic vapor cartridge.

Always observe good personal hygiene measures, such as washing after handling the

material and before eating, drinking, and/or smoking. Routinely wash work clothing and

protective equipment to remove contaminants. Provide eyewash station and safety shower.

Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance : Clear, colourless hygroscopic viscous liquid.

Odor : No data available.

Solubility : No data available.

Formula : H2SO4

Molecular Weight : 98.08 g/mol

Specific Gravity : No data available.

pH : No data available.

% Volatiles by volume @

21C (70F)

No data available.

Boiling Point : No data available.

Melting Point : No data available.

Flash Point : No data available.

Vapor Density (Air=1) : No data available.

Vapor Pressure (mm Hg) : No data available.



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Evaporation Rate (BuAc=1) : No data available.

10. STABILITY AND REACTIVITY:

Reactivity : No data available.

Chemical stability : Material is stable under ambient conditions...

Possibility of hazardous

reactions

No data available.

Conditions to avoid : No data available.

Incompatible materials : No data available.

Hazardous decomposition

products

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION:

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product : No data available.

Dermal Product : No data available.

Inhalation Product . No data available.

Repeated dose toxicity

Product

No data available.

Skin corrosion/irritation

Product

No data available.

Serious eye damage/eye

irritation Product

No data available.

Respiratory or skin sensitization Product

No data available.

Carcinogenicity Product

: No data available.

IARC Monographs on the

Evaluation of Carcinogenic

Risks to Humans

: No data available.

US. National Toxicology

Program (NTP) Report on

: No data available.

Carcinogens

US. OSHA Specifically

Regulated Substances (29

: No data available.

CFR 1910.1001-1050 Germ cell mutagenicity

In vitro Product : No data available.



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Reproductive toxicity

Product

: No components toxic to reproduction.

Specific target organ

toxicity - single exposure

Product

Specific target organ

toxicity - repeated

exposure Product

No data available.

No data available.

Aspiration hazard Product

No data available.

Other effects

No data available.

Components:-Sulphuric acid

Acute toxicity:- LD50 Oral - Rat - male and female - 2.140 mg/kg

Inhalation:- Corrosive to respiratory system.

Dermal:- No data available.

Skin corrosion/irritation:- Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation:- Causes serious eye damage.

Respiratory or skin sensitization:- No data available.

Germ cell mutagenicity:- No data available. Carcinogenicity:- No data available.

Reproductive toxicity:- No data available.

Specific target organ toxicity - single exposure:- No data available. **Specific target organ toxicity - repeated exposure:-** No data available.

Aspiration hazard:- No data available.

12. ECOLOGICAL INFORMATION:

Components Ecotoxicity

sulphuric acid

Toxicity to daphnia and

other aquatic invertebrates

Static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h

Toxicity to algae

: Static test ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 72 h

Chronic hazards to the aquatic environment

Fish Product No data available.

Aquatic invertebrates

No data available.

Product

Toxicity to Aquatic Plants

No data available.

Product:

Persistence and degradability

Biodegradation Product No data available.

BOD/COD ratio Product

No data available.



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Bioaccumulative potential

Bioconcentration factor

(BCF) Product

: No data available on bioaccumulation.

Partition coefficient n-

octanol / water (log Kow)

Product

Mobility in soil

: No data available.

Other adverse effects

No data available.

No data available.

13. DISPOSAL CONSIDERATION:

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal

recommendations are based on uncontaminated material.

Contaminated packaging Since emptied containers retain product residue, follow label warnings even after container

is emptied.

14. TRANSPORT INFORMATION:

DOT	UN No. UN 2796	UN proper shipping name Sulphuric Acid 50%	Hazard Class(es) 8	Packaging group II	Marine Pollutant No
IMDG	UN 2796	Sulphuric Acid 50%	8	II	No
IATA	UN 2796	Sulphuric Acid 50%	8	II	No

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.



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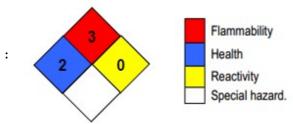
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NFPA Hazard ID

16. OTHER INFORMATION:



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue Date : 20/12/2023

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