



Sodium Sulphate Anhydrous (MCISSA)

Issue Date 15-May-2020 Revision Date 14-May-2020

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name Sodium Sulphate Anhydrous

Chemical Name CAS No EC No REACH Registration Number Sodium Sulphate 7757-82-6 231-820-9 01-2119519226-43-0010

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

Industrial Industrial manufacturing. Manufacture of substances. Distribution and storage. Formulations. Use: as a detergent, as an intermediate including transfers and lab activities, in laboratories (small scale), in non-spraying formulations, in spraying formulations, in syntheses as a process chemical (not as a reactant)

Professional Use: as a detergent, in laboratories (small scale), in non-spraying formulations, in spraying formulations

Consumer Use: in cardboard, in consumer products (private household uses) Uses advised against Not identified.

1.3. Details of the supplier of the safety data sheet

Manufacturer

METRO CHEM INDUSTRIES.

Plant: Plot No. 407, 408 Phase II, Vatva G. I. D. C. Industrial Estate, Vatva, Ahmedabad Gujarat 382 445 INDIA

E-mail: export@metrochemgroup.com

1.4. Emergency telephone number

TEL: +91 70452 69159

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
This substance is not classified as dangerous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This substance is not classified as dangerous according to regulation (EC)1272/2008 [CLP] Symbols/Pictograms Not applicable

Signal word None

Hazard statements Not applicable



Precautionary Statements Not applicable

2.3. Other hazards

None known. This substance does not meet the criteria for classification as PBT or vPvB.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical	EC No	CAS No	REACH Registration	Weight-	Classification
Name			Number	%	according to
					Regulation (EC) No.
					1272/2008 [CLP]
Sodium	231-820-	7757-	6 01-2119519226-43-	>99	Not classified
sulphate	9	82-6	0010		

Full text of H- and EUH-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation First aid measures not required, but get fresh air for personal comfort.

Skin contact First aid measures not required, but wash exposed skin with soap and water for hygienic reasons.

Eye contact First aid measures not required, but rinse opened eye under running water for personal comfort to avoid

mechanical irritation.

Ingestion If a large quantity has been ingested or if you feel unwell, get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

None known

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Not combustible. All types of extinguishing media are suitable. Use fire extinguishing methods suitable to

surrounding conditions.

Unsuitable extinguishing media

Water with full jet as this can form a dust cloud.



5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapours.

Hazardous combustion products Carbon monoxide (CO), Carbon dioxide (CO2), Sulphur dioxide (SO2).

5.3. Advice for firefighters

No special protective equipment required.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment, and emergency procedures

If dusty conditions wear respiratory protective device with dust filter, gloves, and protective clothing for hygienic reasons.

6.2. Environmental precautions

Do not allow into any sewer, on the ground or into any body of water. See Section 12 for additional ecological

information.

6.3. Methods and material for containment and cleaning up

Methods for containment

Cover to prevent dust formation. Take up mechanically, placing in appropriate containers for disposal.

Methods for cleaning up

Vacuum or sweep up material and place in a designated, labelled waste container. After cleaning, flush away traces with water.

6.4. Reference to other sections

See Section 7, 8, 13 for more information

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Do not inhale dust. Avoid generation of dust. Provide adequate ventilation as well as local exhaustion at critical locations.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry and cool place.

7.3. Specific end use(s)

This information is supplied in the present Safety Data Sheet

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION



8.1. Control parameters

Exposure Limits

Keep personal exposure levels below Derived No Effect Level (DNEL) and national exposure limit

values (if existing).

Dust; respirable dust, TWA: 4 mg/m³ Dust; inhalable dust, TWA: 10 mg/m³

Workplace Exposure Limits (WELs) (EH40/2005)

Derived No Effect Level (DNEL) – worker

Sodium sulphate (7757-82-6)			
Туре	Exposure route	DNEL	Remarks
Chronic effects, local	Inhalation	20	mg/m ³
Chronic effects, systemic	Inhalation	20	mg/m3

Derived No Effect Level (DNEL) - Consumer

Sodium sulphate (7757-82-6)			
Type	Exposure route	DNEL	Remarks
Chronic effects, local	Inhalation	12	mg/m ³
Chronic effects, systemic	Inhalation	12	mg/m ³

Predicted No Effect Concentration (PNEC)

Sodium sulphate (7757-82-6)		
Environmental compartment	Predicted No Effect Concentration (PNEC)	Remarks
Freshwater	11.09	mg/l
Freshwater sediment	40.2	mg/kg dry weight
Marine water	1.109	mg/l
Marine sediment	4.02	mg/kg dry weight
Impact on Sewage Treatment	800	mg/l
Soil	1.54	mg/kg dry weight

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation.

Eye/face protection Wear safety glasses with side shields (or goggles).
Hand Protection Protective gloves not really required. However, we

recommend using

protective glove made of rubber. Chloroprene rubber, CR. Nitrile rubber NBR

Skin and body protection Normal work clothes for the chemical industry.

Respiratory protection Wear respiratory device with dust filter (P3) in case of insufficient ventilation.



Environmental exposure controls

Not applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance

powder crystalline white

Odour dourless
Odour threshold
Not applicable

Property Value Remarks ● Method pH >4 solution (10 %)

Melting point / freezing point 884-886 °C Boiling point / boiling range > 1700 °C

Flash point Not applicable

Evaporation rate No information available

Flammability (solid, gas) Not flammable

Explosive limits

Upper explosive limits

Lower explosive limits

Not applicable

Vapour pressure

Not applicable

Vapour densityNo information availableRelative densityNo information available

Water solubility 445.5 g/L @ 20 °C, OECD Test No. 105:

Water Solubility

Solubility(ies)

Partition coefficient

-4.38

No information available log POW (EPI Suite)

Autoignition temperature > 400 °C Regulation (EC) No. 440/2008,

Decomposition temperature Annex, A.16
Not determined

Kinematic viscosityNo information availableDynamic viscosityNo information available

Explosive propertiesNot explosive. **Oxidising properties**Not oxidising.

Density 2.7 g/cm3 @ 20 °C

Bulk density 1450 kg/m3 @ 20 °C

9.2. Other information

No information available.

SECTION 10: STABILITY AND REACTIVITY



10.1. Reactivity

There exists no specific test data for this product. For further information, see the subsequent subsections of this chapter.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Contact of melted Sodium sulphate (melting point 884°C) with aluminium will cause violent reactions (formation of Al2O3, Na2O and SO2/SO3-gas). Danger of explosion!

10.4. Conditions to avoid

Avoid contact with water or humidity. The product is: Hygroscopic.

10.5. Incompatible materials

See above.

10.6. Hazardous decomposition products

Thermal decomposition can lead to release of toxic/corrosive gases and vapours; Sulphur dioxide (SO2), Carbon monoxide (CO), Carbon dioxide (CO2)

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Information on likely routes of exposure

Inhalation, Dermal.

Symptoms related to the physical, chemical and toxicological characteristics

None known.

Numerical measures of toxicity Acute toxicity

Product does not present an acute toxicity hazard based on known or supplied information.

Sodium sulphate (7757-82-6)									
Method	Species	Exposure route	Effective dose	Remarks					
Unknown	Mouse	Oral	5989	LD50 (lethal dose) mg/kg					
OECD Test No. 423: Acute Oral toxicity - Acute Toxic Class Method	Rat	Oral	>2000	LD50 (lethal dose) mg/kg					
OECD Test No. 436	Rat	Inhalation	>2.4	LC50 /4h, dust mg/l Maximum attainable concentration					

Skin corrosion/irritation

Non-irritating to the skin.

Sodium sulphate (7757-82-6)



Method	Species	Exposure route	Results:
OECD Test No. 404: Acute Dermal Irritation/Corrosion	rabbit	Dermal	Non-irritating to the skin

Serious eye damage/eye irritation

Slightly irritating but not relevant for classification.

Sodium sulphate (7757-82-6)			
Method	Species	Exposure route	Results:
Regulation (EC) No. 440/2008,	rabbit	Eye	Slightly irritating. No
Annex, B.5			classification according to GHS criteria.

Respiratory or skin sensitisation

Not a skin sensitiser.

Sodium sulphate (7757-82-6)			
Method	Species	Exposure route	Results:
OECD Test No. 406: Skin Sensitisation	Guinea pig	Skin	Not sensitising.

Germ cell mutagenicity

Not mutagenic.

Not matageme.						
Sodium sulphate (7757-82-6)						
Method	Species	Results:				
Regulation (EC) No. 440/2008, Annex, B.13/14 (Ames test)	in vitro	Negative				
OECD Test No. 473: In vitro Mammalian Chromosome Aberration Test	in vitro	Negative				
OECD Test No. 476: In vitro Mammalian Cell Gene Mutation Test	in vitro	Negative				

Carcinogenicity

There is no indication for any carcinogenic potential since all in vitro mutagenicity studies are negative.

Reproductive toxicity

Is not considered hazardous to the reproduction.

Sodium sulphate (7757-82-6)							
Method	Species	Exposure route	Effective dose	Remarks			
OECD Test No. 421: Reproduction/Developmental Toxicity Screening Test	Rat	Oral	1000	PO; NOAEL mg/kg bw/d No impairment of fertility has been observed.			



OECD Test No. 421: Reproduction/Developmental Toxicity Screening Test	Rat	Oral	1000	F1; NOAEL mg/kg bw/d No embryotoxic or teratogenic effects have been observed.
Test type Developmental Toxicity	Mouse	Oral	17800	NOAEL mg/kg bw/d no maternal toxicity
Test type Developmental Toxicity	Mouse	Oral	2800	NOAEL mg/kg bw/d No embryotoxic or teratogenic effects have been observed.

STOT - single exposure STOT - repeated exposure

No known effect

Sodium sulphate (7757-82-6)				
Method	Species	Exposure route	Effective dose	Remarks
OECD Test No. 421: Reproduction/Developmental Toxicity Screening Test	Rat	Oral	1000	NOAEL mg/kg bw/d No toxicity
One-Generation Reproduction Toxicity Study	Pig	Oral	3320	P0, F1; NOAEL, mg/kg bw/d

SECTION 12: Ecological information

12.1. Toxicity

Low toxicity to aquatic organisms.

Sodium sulphate (7757-82-6)						
Method	Species	Exposure route	Effective dose	Exposure time	Remarks	
EPA/600/4-90/027	Pimephales promelas	Freshwater	7960	96h	LC50 (lethal concentration) mg/l	
EPA 600/R-94/024	Daphnia magna	Freshwater	1766	48h	EC50 (effective concentration) mg/l	
Not defined	Nitzschia sp. (F110)	Freshwater	1900	120h	EC50 (effective concentration) mg/l	
Test type Activated sludge	Bacteria toxicity	Freshwater	26	37d	NOEC g/l	

12.2. Persistence and degradability

Does not biodegrade, inorganic substance.



12.3. Bio accumulative potential

No bioaccumulation potential.

Chemical Name	Partition coefficient	Bioconcentration factor (BCF)
Sodium Sulphate	-4.38	0.5

12.4. Mobility in soil

The substance is not expected to adsorb to a high degree to suspended solids and sediment based upon the log Pow.

12.5. Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB

12.6. Other adverse effects

No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products

The product is not classified as hazardous waste. Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Contaminated packaging

Not applicable.

Waste codes / waste designations according to EWC / AVV

Waste from residues/unused products; 16 03 06.

Other Information

Waste codes should be assigned by the user based on the application for which the product was us

SECTION 14: TRANSPORT INFORMATION

ADR Road transport

14.1 UN number Not regulated

14.2 UN proper shipping nameNot regulated **14.3 Transport hazard class(es)**Not regulated

Subsidiary class

14.4 Packing GroupNot regulated14.5 Environmental hazardNot applicable

14.6 Special precautions for user None

RID Rail transport

14.1 UN numberNot regulated14.2 UN proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated

Subsidiary hazard class –

14.4 Packing Group Not regulated



14.5 Environmental hazard Not applicable

14.6 Special precautions for user None

IMDG Sea transport

14.1 UN numberNot regulated14.2 UN proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing GroupNot regulated14.5 Marine pollutantNot applicable

14.6 Special precautions for user None

14.7 Transport in bulk according

to Annex II of MARPOL 73/78 and the IBC Code

No information available

IATA Air transportNot regulated14.1 UN numberNot regulated14.2 UN proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing GroupNot regulated14.5 Environmental hazardNot applicable

14.6 Special precautions for user None

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health, and environmental regulations/legislation specific for the substance or mixture

International Regulations

Not applicable.

European Union

France

Occupational Illnesses (R-463-3, France) Not applicable

Germany

Water hazard class (WGK) slightly hazardous to water (WGK 1)

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried

SECTION 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Issue Date 15-May-2020 Revision Date 14-May-2020

Revision Note SDS sections updated; 8 National occupational exposure limits, 11 One-

Generation Reproduction Toxicity Study



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