

Material Safety Data Sheet

According to OSHA and ANSI

Printing date 04/20/2011

Reviewed on 01/22/2007

1 Identification of the substance/mixture and of the company/undertaking

Product identifier**Product name:** Sodium sulfite**Stock number:** A17933, L14451**CAS Number:**
7757-83-7**EINECS Number:**
231-821-4**Relevant identified uses of the substance or mixture and uses advised against.**
Sector of Use SU24 Scientific research and development**Details of the supplier of the safety data sheet****Manufacturer/Supplier:**Alfa Aesar, A Johnson Matthey Company
Johnson Matthey Catalog Company, Inc.
30 Bond Street
Ward Hill, MA 01835-8099
Emergency Phone: (978) 521-6300
CHEMTREC: (800) 424-9300
Web Site: www.alfa.com**Information Department:** Health, Safety and Environmental Department**Emergency telephone number:**

During normal hours the Health, Safety and Environmental Department. After normal hours call Chemtrec at (800) 424-9300.

2 Hazards identification

Classification of the substance or mixture

The substance is not classified according to the Globally Harmonized System (GHS).

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

R31: Contact with acids liberates toxic gas.

Label elements**Labelling according to EU guidelines:****Risk phrases:**

31 Contact with acids liberates toxic gas.

Classification system**HMIS ratings (scale 0-4)**

(Hazardous Materials Identification System)

HEALTH	1	Health (acute effects) = 1
FIRE	0	Flammability = 0
REACTIVITY	1	Reactivity = 1

Other hazards**Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Substances**(CAS#) Description:**

Sodium sulfite (CAS# 7757-83-7), 100%

Identification number(s):**EINECS Number:** 231-821-4

4 First aid measures

Description of first aid measures**After inhalation**Supply fresh air. If required, provide artificial respiration. Keep patient warm.
Seek immediate medical advice.**After skin contact**Immediately wash with water and soap and rinse thoroughly.
Seek immediate medical advice.

(Contd. on page 2)

USA

Alfa Aesar
A Johnson Matthey Company

Alfa Aesar
A Johnson Matthey Company

Alfa Aesar
A Johnson Matthey Company

Material Safety Data Sheet
According to OSHA and ANSI

Printing date 04/20/2011

Reviewed on 01/22/2007

Product name: Sodium sulfite

After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing Seek immediate medical advice.**Information for doctor****Most important symptoms and effects, both acute and delayed**

Gastric or intestinal disorders.

Nausea

Unconsciousness

(Contd. of page 1)

5 Firefighting measures**Extinguishing media****Suitable extinguishing agents**

Product is not flammable. Use fire fighting measures that suit the surrounding fire.

Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Sulfur dioxide (SO₂)**Advice for firefighters****Protective equipment:**

Wear self-contained respirator.

Wear fully protective impervious suit.

6 Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Environmental precautions:

Do not allow material to be released to the environment without proper governmental permits.

Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage**Handling****Precautions for safe handling**

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

Ensure good ventilation at the workplace.

Prevent formation of dust.

Information about protection against explosions and fires: The product is not flammable**Conditions for safe storage, including any incompatibilities****Storage****Requirements to be met by storerooms and receptacles:** No special requirements.**Information about storage in one common storage facility:**

Do not store together with oxidizing and acidic materials.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

8 Exposure controls/personal protection**Additional information about design of technical systems:**

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control parameters**Components with limit values that require monitoring at the workplace:** Not required.**Additional information:** No data

(Contd. on page 3)

USA

Alfa Aesar
A Johnson Matthey Company

Alfa Aesar
A Johnson Matthey Company

Alfa Aesar
A Johnson Matthey Company

Material Safety Data Sheet

According to OSHA and ANSI

Printing date 04/20/2011

Reviewed on 01/22/2007

Product name: Sodium sulfite

(Contd. of page 2)

Exposure controls**Personal protective equipment****General protective and hygienic measures**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment: Use suitable respirator when high concentrations are present.**Protection of hands:** Impervious gloves**Eye protection:** Safety glasses**Body protection:** Protective work clothing.**9 Physical and chemical properties****Information on basic physical and chemical properties****General Information****Appearance:**

Form:	Powder
Color:	White
Odor:	Odorless
Odour threshold:	Not determined.

pH-value (50 g/l) at 20°C (68 °F): 8.8-10

Change in condition

Melting point/Melting range:	>500°C (>932 °F) (dec.)
Boiling point/Boiling range:	Not determined
Sublimation temperature / start:	Not determined

Flash point: Not applicable

Flammability (solid, gaseous) Product is not flammable.

Ignition temperature: Not determined

Decomposition temperature: Not determined

Auto igniting: Not determined.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower:	Not determined
Upper:	Not determined

Vapor pressure: Not applicable.

Density at 20°C (68 °F): 2.633 g/cm³ (21.972 lbs/gal)

Relative density: Not determined.

Vapour density: Not applicable.

Evaporation rate: Not applicable.

Solubility in / Miscibility with

Water at 20°C (68 °F): 230 g/l

Segregation coefficient (n-octanol/water): Not determined.

Viscosity:

dynamic:	Not applicable.
kinematic:	Not applicable.
Other information	No further relevant information available.

10 Stability and reactivity**Reactivity****Chemical stability****Thermal decomposition / conditions to be avoided:**

Decomposition will not occur if used and stored according to specifications.

Possibility of hazardous reactions No dangerous reactions known**Incompatible materials:**

Acids

(Contd. on page 4)

USA

Alfa Aesar[®]
A Johnson Matthey Company

Alfa Aesar[®]
A Johnson Matthey Company

Alfa Aesar[®]
A Johnson Matthey Company

Material Safety Data Sheet
According to OSHA and ANSI

Printing date 04/20/2011

Reviewed on 01/22/2007

Product name: Sodium sulfite

Oxidizing agents
Hazardous decomposition products:
 Sulfur dioxide
 Metal oxide fume

(Contd. of page 3)

11 Toxicological information

Information on toxicological effects

Acute toxicity:**LD/LC50 values that are relevant for classification:**

Oral	LD50	820 mg/kg (mouse)
		3560 mg/kg (rat)

Primary irritant effect:**on the skin:** May cause irritation**on the eye:** May cause irritation**Sensitization:** No sensitizing effects known.**Subacute to chronic toxicity:**

Large oral doses may cause violent colic and diarrhea, CNS depression and even death.

Persons with allergies and/or asthma may exhibit hypersensitivity to sulfites.

Additional toxicological information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

IARC-3: Not classifiable as to carcinogenicity to humans.

12 Ecological information**Toxicity****Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Do not allow material to be released to the environment without proper governmental permits.

Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.**13 Disposal considerations****Waste treatment methods****Recommendation** Consult state, local or national regulations to ensure proper disposal.**Uncleaned packagings:****Recommendation:** Disposal must be made according to official regulations.**14 Transport information**

Not a hazardous material for transportation.

DOT regulations:**Hazard class:** None**Land transport ADR/RID (cross-border)****ADR/RID class:** None**Maritime transport IMDG:****IMDG Class:** None**Marine pollutant:** No

(Contd. on page 5)

USA

Alfa Aesar
A Johnson Matthey Company

Alfa Aesar
A Johnson Matthey Company

Alfa Aesar
A Johnson Matthey Company

Material Safety Data Sheet
According to OSHA and ANSI

Printing date 04/20/2011

Reviewed on 01/22/2007

Product name: Sodium sulfite

(Contd. of page 4)

Air transport ICAO-TI and IATA-DGR:
ICAO/IATA Class: None

Special precautions for user Not applicable.

Transport/Additional information: Not dangerous according to the above specifications.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

15 Regulatory information

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

Product related hazard informations:

Risk phrases:

31 Contact with acids liberates toxic gas.

National regulations

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

Information about limitation of use: For use only by technically qualified individuals.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing MSDS: Health, Safety and Environmental Department.

Contact:

Zachariah C. Holt

Global EHS Manager

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

HMSIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

USA

Alfa Aesar
A Johnson Matthey Company

Alfa Aesar
A Johnson Matthey Company

Alfa Aesar
A Johnson Matthey Company