

Material Safety Data Sheet

Sodium metabisulfite, anhydrous, 97%

ACC# 96502

Section 1 - Chemical Product and Company Identification

MSDS Name: Sodium metabisulfite, anhydrous, 97%

Catalog Numbers: AC171490000, AC171490025

Synonyms: Sodium pyrosulfite; Disodium disulfite; Pyrosulfurous acid, disodium salt.

Company Identification:

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01

For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
7681-57-4	Sodium metabisulfite	>97	231-673-0
7446-09-5	Sulfur dioxide	-	231-195-2

Hazard Symbols: XN

Risk Phrases: 22 31 41

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: white to yellow solid. May be harmful if swallowed. May cause allergic skin and respiratory reaction. **Caution!** May cause respiratory tract irritation. Contact with acids liberates toxic gas, sulfur dioxide. Slowly oxidized to the sulfate on exposure to air and moisture. May cause skin irritation. May cause severe eye irritation.

Target Organs: Respiratory system, eyes, skin.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation. May cause an allergic reaction in certain individuals.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed. Exposure may cause central nervous system depression, gastrointestinal and cardiac abnormalities, and violent colic. Sulfite compounds may cause a severe allergic reaction in sensitive individuals and some asthmatics.

Inhalation: May cause allergic respiratory reaction. May cause effects similar to those described for ingestion. Inhalation of dust may cause respiratory tract irritation.

Chronic: Prolonged or repeated skin contact may cause dermatitis. Repeated or prolonged exposure may cause allergic reactions in sensitive individuals.

Section 4 - First Aid Measures

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

Skin: In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

Ingestion: If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Substance is noncombustible.

Extinguishing Media: Use water fog, dry chemical, carbon dioxide, or regular foam.

Flash Point: Not applicable.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation. Do not get water inside containers.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid breathing dust.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from strong acids. Store protected from moisture. Keep away from oxidizing agents.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium metabisulfite	5 mg/m3 TWA	5 mg/m3 TWA	none listed
Sulfur dioxide	2 ppm TWA; 5 ppm STEL	2 ppm TWA; 5 mg/m3 TWA 100 ppm IDLH	5 ppm TWA; 13 mg/m3 TWA

OSHA Vacated PELs: Sodium metabisulfite: 5 mg/m3 TWA Sulfur dioxide: 2 ppm TWA; 5 mg/m3 TWA

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Appearance: white to yellow

Odor: sulfur dioxide odor

pH: 4.3 (1% sol.)

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: decomposes

Freezing/Melting Point: > 302 deg F

Decomposition Temperature: > 302 deg F

Solubility: Soluble.

Specific Gravity/Density: 1.48

Molecular Formula: Na₂S₂O₅

Molecular Weight: 190.10

Section 10 - Stability and Reactivity

Chemical Stability: Stable. However, may decompose if heated. Oxidizes when exposed to air. Moisture sensitive.

Conditions to Avoid: Dust generation, moisture, exposure to air, excess heat, Corrosive to aluminum in aqueous solution..

Incompatibilities with Other Materials: Strong oxidizing agents, acids.

Hazardous Decomposition Products: Oxides of sulfur, toxic fumes of sodium oxide.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 7681-57-4: UX8225000

CAS# 7446-09-5: WS4550000

LD50/LC50:

CAS# 7681-57-4:

Dermal, guinea pig: LD50 = >1 gm/kg;

Draize test, rabbit, eye: 100 mg/24H Mild;

Draize test, rabbit, skin: 500 mg;

Oral, rat: LD50 = 1131 mg/kg;

Skin, rat: LD50 = >2 gm/kg;

CAS# 7446-09-5:

Draize test, rabbit, eye: 6 ppm/32D Mild;

Inhalation, mouse: LC50 = 3000 ppm/30M;

Inhalation, rat: LC50 = 2168 mg/m3;
Inhalation, rat: LC50 = 2520 ppm/1H;

Carcinogenicity:

CAS# 7681-57-4:

ACGIH: A4 - Not Classifiable as a Human Carcinogen CAS# 7446-09-5:

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: IARC Group 3 - not classifiable

Epidemiology: Experimental reproductive effects have been reported.

Teratogenicity: No information available.

Reproductive Effects: Reproductive effects have occurred in experimental animals.

Neurotoxicity: No information available.

Mutagenicity: Mutagenic effects have occurred in experimental animals.

Other Studies: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	IATA	RID/ADR	IMO	Canada TDG
Shipping Name:	No information available.				No information available.
Hazard Class:					
UN Number:					
Packing Group:					

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 7681-57-4 is listed on the TSCA inventory.

CAS# 7446-09-5 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

CAS# 7446-09-5: 500 lb TPQ

SARA Codes

CAS # 7681-57-4: acute. CAS # 7446-09-5: acute, sudden release of pressure.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 7681-57-4 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

CAS# 7446-09-5 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

XN

Risk Phrases:

R 22 Harmful if swallowed.

R 31 Contact with acids liberates toxic gas.

R 41 Risk of serious damage to eyes.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 39 Wear eye/face protection.

S 46 If swallowed, seek medical advice immediately and show this container or label.

WGK (Water Danger/Protection)

CAS# 7681-57-4: 1

CAS# 7446-09-5: 1

Canada - DSL/NDSL

CAS# 7681-57-4 is listed on Canada's DSL List.

CAS# 7446-09-5 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of D2B.

Canadian Ingredient Disclosure List

CAS# 7681-57-4 is listed on the Canadian Ingredient Disclosure List.

CAS# 7446-09-5 is listed on the Canadian Ingredient Disclosure List.

Exposure Limits

CAS# 7681-57-4: OEL-AUSTRALIA:TWA 5 mg/m³ OEL-BELGIUM:TWA 5 mg/m³

OEL-DENMARK:TWA 5 mg/m³ OEL-FRANCE:TWA 5 mg/m³ OEL-THE NETHERLANDS:T

WA 5 mg/m³ OEL-SWITZERLAND:TWA 5 mg/m³ OEL-UNITED KINGDOM:TWA 5 mg/m

3 OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV OEL IN NE

W ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

CAS# 7446-09-5: OEL-ARAB Republic of Egypt:TWA 5 ppm (13 mg/m³) OEL

-AUSTRALIA:TWA 2 ppm (5 mg/m³);STEL 5 ppm (10 mg/m³) OEL-BELGIUM:TWA

2 ppm (5.2 mg/m³);STEL 5 ppm (13 mg/m³) OEL-CZECHOSLOVAKIA:TWA 5 mg/m

3;STEL 10 mg/m³ JAN9 OEL-DENMARK:TWA 2 ppm (5 mg/m³) OEL-FINLAND:TWA

2 ppm (5 mg/m³);STEL 5 ppm (13 mg/m³) OEL-FRANCE:TWA 2 ppm (5 mg/m³)

;STEL 5 ppm (10 mg/m³) OEL-GERMANY:TWA 2 ppm (5 mg/m³) OEL-HUNGARY:T

WA 3 mg/m³;STEL 6 mg/m³ OEL-THE NETHERLANDS:TWA 2 ppm (5 mg/m³) OEL-

THE PHILIPPINES:TWA 5 ppm (13 mg/m³) OEL-POLAND:TWA 20 mg/m³ OEL-RUS

SIA:STEL 10 mg/m³;Skin OEL-SWEDEN:TWA 2 ppm (5 mg/m³);STEL 5 ppm (13

mg/m³) OEL-SWITZERLAND:TWA 2 ppm (5 mg/m³);STEL 4 ppm (1 mg/m³) OEL-

THAILAND:TWA 5 ppm (13 mg/m³) OEL-TURKEY:TWA 5 ppm (13 mg/m³) OEL-UN

ITED KINGDOM:TWA 2 ppm (5 mg/m³);STEL 5 ppm (13 mg/m³) OEL IN BULGARI

A, COLOMBIA, JORDAN, KOREA check ACGIH TLV OEL IN NEW ZEALAND, SINGAP

ORE, VIETNAM check ACGI TLV

Section 16 - Additional Information

MSDS Creation Date: 7/27/1999

Revision #3 Date: 6/27/2002

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.