

### Univar USA Inc Material Safety Data Sheet

MSDS No:	P12108VS
Version No:	013 2013-11-19
Order No:	

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**Emergency Assistance** 

For emergency assistance involving chemicals call Chemtrec - (800) 424-9300 Conforms to ANSI Z400.1-2004 Standard

# **Material Safety Data Sheet**

Sodium bisulfate, anhydrous, technical grade



# 1. Product and company identification

Product name : Sodium bisulfate, anhydrous, technical grade

Synonym : Nitre cake, GBS
Code : SBSCUN01

Material uses : Cleaning compounds, pH adjustment. Not approved for use in food or animal feed.

**Supplier/Manufacturer**: Jones-Hamilton Co.

30354 Tracy Road Walbridge, OHIO, 43465 Tel: (419) 666-9838 Fax: (419) 666-1817

MSDS authored by : KMK Regulatory Services Inc.

In case of emergency : CHEMTREC, U.S.: 1-800-424-9300 International: +1-703-527-3887

### 2. Hazards identification

**Emergency overview** 

Physical state : Dry (Anhydrous) crystalline solid spherical shape beads.

Color : Off-white.

Odor : Fresh to pungent.
Signal word : WARNING!

Hazard statements : Causes serious eye irritation. May cause respiratory irritation. May be harmful if

swallowed.

Precautionary measures : Do not get in eyes. Avoid contact with skin and clothing. Use only with adequate

ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling. Material is non-flammable. Use extinguishing media suitable

for surrounding materials.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Inhalation : Inhalation of dust may irritate nose, throat and/or lungs.

Ingestion : Small amounts (tablespoonful) swallowed are not likely to cause injury; however,

swallowing large amounts may irritate or burn digestive tract.

**Skin**: Prolonged exposure may cause skin irritation.

Eyes : Causes serious eye irritation.

Potential chronic health effects

Chronic effects
 No known significant effects or critical hazards.
 Carcinogenicity
 No known significant effects or critical hazards.
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 Developmental effects
 No known significant effects or critical hazards.
 Fertility effects
 No known significant effects or critical hazards.
 Target organs
 No known significant effects or critical hazards.

Over-exposure signs/symptoms

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

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SBSCUN01 1/7



### 2. Hazards identification

**Eyes** 

: Adverse symptoms may include the following:

pain watering redness

**Medical conditions** 

: None known.

aggravated by overexposure

See toxicological information (Section 11)

# 3. Composition/information on ingredients

#### **United States**

Name	CAS number	%
Sodium bisulfate	7681-38-1	>90

#### Canada

Name	CAS number	%
Sodium bisulfate	7681-38-1	>90

<u>Mexico</u>				Classification				
Name	CAS number	UN number	%	IDLH	Н	F	R	Special
Sodium bisulfate	7681-38-1	Not regulated.	>90	-	1	0	0	-

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 4. First aid measures

Eye contact

Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. If redness or irritation persists, get prompt medical attention.

Skin contact

In case of contact, immediately flush skin with plenty of water for at least 20 minutes. If skin irritation occurs, seek medical attention.

Inhalation

Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If irritation or discomfort persists, seek medical attention.

Ingestion

Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call medical doctor or poison control center immediately.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training.

Notes to physician

: Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

# 5. Fire-fighting measures

Flammability of the product : No specific fire or explosion hazard.

**Extinguishing media** 

**Suitable** : Use an extinguishing agent suitable for the surrounding fire.

Not suitable None known.

**Hazardous decomposition** 

: Decomposition products may include the following materials:

products

Sulfur oxides

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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SBSCUN01 2/7



### 6. Accidental release measures

**Personal precautions** 

: Do not breathe dust. Provide adequate ventilation. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods for cleaning up

**Small spill** 

: Stop leak if without risk. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### 7. Handling and storage

**Handling** 

: Put on appropriate personal protective equipment (see Section 8). Avoid breathing dusts. Wash thoroughly after handling.

**Storage** 

: Material is hygroscopic and will readily absorb moisture. DO NOT store dry product where exposed to moist conditions. Keep container tightly closed.

### 8. Exposure controls/personal protection

#### Canada

#### **Occupational exposure limits**

No exposure limit value known.

#### **Mexico**

#### Occupational exposure limits

No exposure limit value known.

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

: Personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Engineering measures** 

 Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures

: Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

#### **Personal protection**

Respiratory

: In dusty atmospheres (>10 mg/m³), use a NIOSH-approved dust respirator.

**Hands** 

: Use gloves appropriate for work or task being performed. Recommended: Rubber gloves.

Eyes

: Safety eyewear should be used when there is a likelihood of exposure. Recommended: Safety glasses with side shields.

Skin

: Cotton-blend coveralls.

**Environmental exposure** 

controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

SBSCUN01 3/7



### 9. Physical and chemical properties

Physical state : Dry (Anhydrous) crystalline solid spherical shape beads.

Color : Off-white.

Odor : Fresh to pungent.

Molecular weight : 120
Molecular formula : NaHSO<sub>4</sub>

**pH** : <1 [Conc. (% w/w): 5%]

Melting/freezing point : 177°C (350.6°F) Specific gravity : 1.28 g/cm³

Solubility : Partially soluble in the following materials: cold water and hot water.

### 10. Stability and reactivity

**Chemical stability**: The product is stable.

Conditions to avoid : DO NOT store dry product where exposed to moist conditions.

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials, acids and

alkalis. DO NOT MIX dry or concentrated solutions of this product with concentrated

solutions of chlorine bleach, ammonia cleansers or similar products.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

# 11. Toxicological information

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Sodium hydrogensulphate	LD50 Oral	Rat	2800 mg/kg	-

IDLH : Not available.Synergistic products : Not available.

# 12. Ecological information

**Environmental effects** 

: This product readily dissolves in water to form a weak acid solution. A 0.05 percent or greater (by weight) solution of this product will likely be acutely harmful to aquatic life.

Other adverse effects

: No known significant effects or critical hazards.

# 13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Empty containers or liners may retain some product residues. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

SBSCUN01



## 14. Transport information

### **International transport regulations**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
Mexico Classification	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

PG\*: Packing group Exemption to the above classification may apply. **AERG**: Not applicable.

### 15. Regulatory information

**United States** 

**HCS Classification** : Irritating material

**U.S. Federal regulations** : United States inventory (TSCA 8b): All components are listed or exempted.

> SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: Sodium bisulfate

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sodium bisulfate: Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Air Act Section 112 : Not listed

(b) Hazardous Air **Pollutants (HAPs)** 

Class I Substances

Clean Air Act Section 602 : Not listed

Clean Air Act Section 602 : Not listed

**Class II Substances** 

**DEA List I Chemicals** (Precursor Chemicals) : Not listed

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

State regulations

**Massachusetts** : None of the components are listed. **New York** : None of the components are listed. **New Jersey** : None of the components are listed. **Pennsylvania** : None of the components are listed.

California Prop. 65

No products were found.

<u>Canada</u>

WHMIS (Canada) : Class D-2B: Material causing other toxic effects (Toxic).

**Canadian lists** 

KMK Regulatory Services SBSCUN01 5/7



# 15. Regulatory information

Canadian NPRI : None of the components are listed.

CEPA Toxic substances : None of the components are listed.

Canada inventory : All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

#### **Mexico**

Classification :



#### International regulations

International lists

: Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted.

Japan inventory: All components are listed or exempted. Korea inventory: All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

**Philippines inventory (PICCS)**: All components are listed or exempted.

Taiwan inventory (CSNN): Not determined.

### 16. Other information

**Label requirements** 

: Warning - Causes serious eye irritation. May cause respiratory irritation. May be harmful if swallowed. Wear protective gloves and eye/face protection. Avoid breathing dust. Wash thoroughly after handling.

Physical hazards: 0

Hazardous Material Information System (U.S.A.)

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

Flammability:

The customer is responsible for determining the PPE code for this material.

: Health:

1

National Fire Protection Association (U.S.A.)

: Health: 1 Flammability: 0 Instability: 0

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#### **Canada**

WHMIS (Canada)



References : GHS - Globally Harmonized System of Classification and Labeling of Chemicals

Regulation of Labelling and Hazard Communication of Dangerous and Harmful Materials

Other information : NSF/ANSI Standard 60: Function – Corrosion and scale control, pH adjustment;

Maximum use rate – 500 mg/L.

SBSCUN01 6/7

# 16. Other information

### History

Date of issue : 10/15/2013

Date of previous issue : 11/01/2010

Version : 4

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

### Univar USA Inc Material Safety Data Sheet

For Additional Information contact MSDS Coordinator during business hours, Pacific time: (425) 889-3400

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