# **Material Safety Data Sheet**



Restek Corporation 110 Benner Circle Bellefonte, PA 16823-8812

(814) 353-1300

Revision Date: 03/20/12

(800) 356-1688 Fax: (814) 353-1309

### I. PRODUCT IDENTIFICATION

Catalog Number / Product Name: 34043 / Bromazepam Standard

Revision Number:

**Intended use:** For Laboratory use only

#### II. HAZARD INDENTIFICATION

**Emergency Overview:** 

**Physical Hazards:** F - Highly flammable

Health Hazards: T - Toxic

Routes of Entry: Inhalation, Skin Contact, Eye Contact, Ingestion Target Organs Potentially Affected By Exposure: eyes, CNS, skin, GI tract, respiratory system

Chemical Interactions That Change Toxicity: None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation: Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea

and headache.

Inhalation Toxicity: Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause

central nervous system depression and overexposure can cause damage to the

optic nerve resulting in visual impairment or blindness.

**Skin Contact:** Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause

permanent damage.

**Eye Contact:** Can cause moderate irritation, tearing and reddening, but not likely to

permanently injure eye tissue.

Irritating to mouth, throat, and stomach. Can cause abdominal discomfort,

nausea, vomiting and diarrhea. Highly toxic and may be fatal if swallowed.

**Ingestion Toxicity:** Toxic if swallowed. May cause target organ failure and/or death. May be fatal if

swallowed.

**Long-Term (Chronic) Health Effects:** 

Carcinogenicity: No dat

Reproductive and Developmental Toxicity: No data available to indicate product or any

components present at greater than 0.1% may cause

birth defects.

**Inhalation:** Upon prolonged and/or repeated exposure, can cause

moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated

exposure (see "Target Organs)

Skin Contact: Upon prolonged or repeated contact, can cause

moderate skin irritation, defatting, and dermatitis. Not

likely to cause permanent damage.

Ingestion: Toxic if swallowed. May cause target organ failure

and/or death.

# Material Safety Data Sheet Revision Date: 03/20/12

#### **III. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS#	EINEC #	% Composition	
methanol	67-56-1	200-659-6	99.900000	
bromazepam	1812-30-2	_	0.100000	

### **IV. FIRST-AID MEASURES**

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not

breathing, give artificial respiration and have a trained individual administer oxygen. Get

medical attention immediately

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to

prevent chemical from transferring to the uncontaminated eye. Get immediate medical

attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical

attention if irritation develops or persists.

**Ingestion:** Do not induce vomiting and seek medical attention immediately. Drink two glasses of water

or milk to dilute. Provide medical care provider with this MSDS.

### V. FIRE FIGHTING MEASURES

**Extinguishing Media:** Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing

agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and

keep exposed material from being damaged by fire.

Fire and/or Explosion Hazards: Vapors may be ignited by sparks, flames or other sources of ignition if

material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe

distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

### VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be severely irritating or toxic. Follow

personal protective equipment recommendations found in Section VIII of this MSDS. Personal protective equipment needs must be evaluated

this MSDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special

circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any

occupational exposure limits.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the

environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal

evaluation.

### VII. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid

breathing the material. Use only in a well ventilated area. Use

spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from

# **Material Safety Data Sheet**

Revision Date: 03/20/12

incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

## VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States: Chemical Name methanol	<b>CAS No.</b> 67-56-1	IDLH 6000 ppm IDLH	ACGIH STEL 250 ppm STEL	ACGIH TLV-TWA 200 ppm TWA	OSHA Exposure Limit 200 ppm TWA; 260
bromazepam	1812-30-2	ND		No TLV	mg/m3 TWA No PEL established
United Kingdom: Chemical Name methanol bromazepam	CAS No. 67-56-1 1812-30-2	EINEC No. <b>200-659-6</b>	WEL-STEL 250 ppm STEL; 333 mg/m3 STEL No data.	WEL-TWA 200 ppm TWA; 266 mg/m3 TWA No data.	
France: Chemical Name methanol	<b>CAS No.</b> 67-56-1	<b>EINEC No.</b> 200-659-6	VLCTs-STEL 1000 ppm VLCT; 1300 mg/m3 VLCT No data.	VME-TWA 200 ppm VME (restrictive limit); 260 mg/m3 VME (restrictive limit) No data.	
Germany: Chemical Name methanol	CAS No. 67-56-1 1812-30-2	EINEC No. 200-659-6	VELs 200 ppm TWA (The risk of damage to the embryo or fetus can be excluded when MAK and BAT values are observed, exposure factor 4); 270 mg/m3 TWA (The risk of damage to the embryo or fetus can be excluded when MAK and BAT values are observed, exposure factor 4) No data.		

Personal Protection:

**Engineering Measures:** Local exhaust ventilation is recommended when generating excessive levels

of vapors from handling or thermal processing.

**Respiratory Protection:** Respiratory protection may be required to avoid overexposure when handling

this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained

in Section III, provide respiratory protection.

**Eye Protection:** Wear chemically resistant safety glasses with side shields when handling this

product. Do not wear contact lenses.

**Skin Protection:** Wear protective gloves. Inspect gloves for chemical break-through and

replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating,

drinking, and when leaving work

### IX. PHYSICAL AND CHEMICAL PROPERTIES

Odor: Mild

pH: No data available. Vapor Density: 1.1 (air = 1) Melting Point: -98  $^{\circ}$ 

Flash Point: No data available. Flammability: Highly Flammable

Upper Flammable/Explosive Limit, % in air: 36.0 Lower Flammable/Explosive Limit, % in air: 6.0 Autoignition Temperature: 464 deg C

**Specific Gravity:** 0.791 - 0.792 g/cm3 at 20 ℃

# Material Safety Data Sheet Revision Date: 03/20/12

Evaporation Rate:

Odor Threshold:

Solubility:

VOC % by weight:

Molecular Weight:

No data available.

No data available.

No data available.

No data available.

X. STABILITY AND REACTIVITY:

Stability: Stable under normal conditions.

Materials to Avoid / Chemical Incompatiability: Strong oxidizing agents

Hazardous Decomposition Products: Carbon dioxide Carbon monoxide

XI. TOXICOLOGICAL INFORMATION:

**Component Toxicological Data:** 

NIOSH:

Chemical Name CAS No. LD50/LC50

Methanol 67-56-1 Inhalation LC50 Rat 83.2 mg/L 4 h; Inhalation LC50 Rat 64000

ppm 4 h; Oral LD50 Rat 5628 mg/kg; Dermal LD50 Rabbit

15800 mg/kg

**Component Carcinogenic Data:** 

OSHA:

Chemical Name CAS No.

No data available

ACGIH:

Chemical Name CAS No.

No data available.

NIOSH:

Chemical Name CAS No.

No data available.

NTP:

Chemical Name CAS No.

No data available.

IARC:

Chemical Name CAS No. Group No.

No data. Group 1
No data. Group 2A
No data. Group 2B

XII. ECOLOGICAL INFORMATION:

Overview: Moderate ecological hazard. This product may

be dangerous to plants and/or wildlife.

Mobility:No dataPersistence:No dataBioaccumulation:No data

**Degradability:** Biodegrades slowly.

**Ecological Toxicity Data:** 0

XIII. DISPOSAL CONSIDERATIONS:

Waste Description of Spent Product: Spent or discarded material is a hazardous waste.

**Disposal Methods:** Dispose of by incineration following Federal, State,

Local, or Provincial regulations.

Waste Disposal of Packaging: Comply with all Local, State, Federal, and Provincial

Environmental Regulations.

34043 / Bromazepam Standard

Page 4 of 6

#### **Material Safety Data Sheet** Revision Date: 03/20/12

### XIV: TRANSPORTATION INFORMATION:

**United States:** 

**DOT Proper Shipping Name:** Methanol **UN Number:** UN1230

**Hazard Class:** 3 **Packing Group:** Ш

International:

**IATA Proper Shipping Name:** Methanol **UN Number:** UN1230 **Hazard Class:** 3 (6.1) **Packing Group:** Ш

**Marine Pollutant:** Yes

### XV. REGULATORY INFORMATION:

**United States: Chemical Name** CAS# **CERCLA SARA 313 SARA EHS 313 TSCA** methanol 67-56-1 Х 1812-30-2

The following chemicals are listed on CA Prop 65:

**Chemical Name** Regulation

State Right To Know Listing:

California **Chemical Name** CAS# **New Jersey** Massachusetts Pennsylvania methanol 67-56-1 Χ Х bromazepam 1812-30-2

### **EU Directives Classification: Hazard Symbols**



bromazepam



**Risk Phrases:** R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

R39/23/24/25 - Toxic: danger of very serious irreversible effects through inhalation, in

contact with skin and if swallowed

R11 - Highly flammable

S1/2:Keep locked up and out of the reach of children **Safety Phrases:** 

S7:Keep container tightly closed

S16:Keep away from sources of ignition - No smoking S36/37:Wear suitable protective clothing and gloves

S45:In case of accident or if you feel unwell, seek medical advice immediately

Water Hazard Class:

XVI: ADDITIONAL INFORMATION

**Prior Version Date:** 

RESTEK CORPORATION PROVIDES THE DESCRIPTIONS, DATA AND INFORMATION **Disclaimer** 

34043 / Bromazepam Standard

Page 5 of 6

# Material Safety Data Sheet Revision Date: 03/20/12

CONTAINED HEREIN IN GOOD FAITH BUT MAKES NO REPRESENTATION AS TO ITS COMPREHENSIVENESS OR ACCURACY. IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, RESTEK CORPORATION RECOMMENDS YOU PERFORM AN ASSESSMENT TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED, DATA OR INFORMATION SET FORTH. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION,OR DATA PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, THE DESCRIPTIONS, DATA AND INFORMATION FURNISHED HEREUNDER ARE GIVEN GRATIS. NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DATA AND INFORMATION GIVEN ARE ASSUMED. ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.