

# WESTERN RESERVE CHEMICAL

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## MATERIAL SAFETY DATA SHEET

**CBS**

CAS #

**95-33-0**

### 1. Product Identifications

Product Name: CBS  
Chemical Name: N-Cyclohexyl-2 Benzothiazole  
Sulfenamide  
Formula:  $C_{13}H_{16}N_2S_2$

### 2. Physical Description/Properties

Specific Gravity: 1.32-1.34  
Melting Point (C° Min): 98  
Bulk Density (g/cm<sup>3</sup>): 0.4  
Diameter of Pellet (mm): 3-5  
PH Value 7  
Appearance: Grayish white or light yellow powder or powder  
Odor: Slight Odor  
Taste: Slight Bitter  
Methanol insoluble % Max 0.3  
Solubility: Soluble in benzene, methylbenzene, Chloroform, carbon disulfide methylene chloride, acetone and ethyl acetate, soluble in ethylalcohol, insoluble in water, dilute acid, dilute alkali and gasoline.  
Volatiles % <0.3  
Ash % <0.3  
Sieve residue <0.1

### **3. Hazard Information**

#### **Combustible dust**

Keep away from heat, sparks and flame.

Eye irritant-Can cause redness, tearing and swelling.

Skin contact may cause allergic reaction.

Inhalation may cause upper respiratory irritation.

Ingestion of large quantities can cause damage to the liver and kidneys.

### **4. First Aid Information**

Skin:	Remove contaminated clothing and wash before re-use. Immediately wash contaminated skin with running water.
Ingestion:	Immediately rinse mouth with water. Induce vomiting only at the instruction of a physician. Seek immediate medical attention.
Eyes:	Flush with water for 15 minutes. Seek medical attention if irritation persists.
Inhalation:	Remove person to fresh air. Get immediate medical attention if breathing is difficult or short.

### **5. Handling and Storage**

Storage:	Store in a dry well-ventilated area avoiding direct exposure to sunlight
Stability in storage:	one year

### **6. Employee Protection Recommendations**

The employee should wear protective clothes and avoid direct physical contact with the product.

Eye Protection: Wear chemical safety glasses or goggles

Hand Protective Requirements: Wear protective gloves.

Skin Protective Requirements: Wear overalls.

Ventilation: Local exhaust

### **7. Toxicological Information**

Low toxicity

LD50 acute oral for rats: 780-1300mg/kg

LD50 acute skin for rats: >794mg/kg

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### **8. Fire and Explosion Data**

Flash point:	Not available
Exposure standard limits:	Not available
Flammable	
Extinguish Media:	Spray water, Carbon Dioxide, foam, sand or dry chemical.

### **9. Reactivity**

Chemical stability: Stable when stored in original container protected from heat and moisture.

Hazardous Polymerization: Does not occur.

Materials to avoid: Strong oxidizers, acids and water.

Hazardous products of decomposition: Carbon monoxide, sulfur dioxide and amines.

### **10. Accidental Release and Disposal**

Spills: Sweep and place in closable container. Avoid generation of dust. Wear appropriate protective clothing and safety devices. Do not use water to remove spilled material.

Disposal: Bury waste and empty containers in licensed landfill in adherence to federal, state and local regulations.

### **11. Transportation Information**

DOT Status	Not regulated
DOT shipping name	None
DOT reportable qty. (lbs)	None
ICAO/IATA Status	Not regulated
Proper shipping name	None
UN/NA number	None
IMDG Status	Not regulated
TDG Canada	Not regulated

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### 12. Regulatory Information

Worldwide Inventory Status	
TSCA (USA):	Listed
Canadian DSL:	Listed
Canadian NDSL:	Not Applicable. Listed on the DSL
EINECS/ELINCS (Europe):	Listed
Japanese Inventory (ENCS):	Listed
Korean Chemical Inventory (ECL):	Listed
Australian Chemical Inventory(AICS):	Listed
New Zealand (NZ):	Listed
Philippines (PICCS) Inventory:	Listed
China (CLECS):	Listed
US Regulatory Rules	
SARA Section 302:	Not Found
SARA 311/312 Hazard Categories:	Immediate Delayed Fire
SARA 313 Chemical:	Component 2-Mercaptobenzo- thiazole: New Jersey Sub- stance ID#0567
RCRA Status:	
Other Regulations:	
California Proposition 65:	NONE
New Jersey Right to Know List:	Component 2-Mercaptobenzo- thiazole: New Jersey Substance ID# 0567
Pennsylvania Right to Know List:	Component Cyclohexylamine.
Florida Right to Know:	Not Applicable
Minnesota Right to Know:	Component Cyclohexylamine.
MA Right to Know Law:	Component Cyclohexylamine: Threshold 1 ppm.
FDA Status 21 CFR:	Regulated for Use under the Following sections of 21 CFR: 177.2600 Rubber Articles Intended for Repeated Use in Food Contact.

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### Canadian Regulations

WHMIS Hazard Class:

D2B TOXIC MATERIALS/  
Materials Causing Other Toxic  
effects

NPRI:

Component 2-Mercaptobenzo-  
thiazole: NPRI Part 1, Group 1,  
ID# 148, minimum concentra-  
tion 1%.

### **13. Other Information**

FDA status 21 CFR

Regulated for use under the following  
sections of 21CFR: 177.2600.

Rubber articles intended for repeated use in  
food contact

HMIS Classification Health 2 Flammability 1 Reactivity 0

Important Note: The information provided is without warranty regarding its accuracy or completeness. The information may not be valid under all conditions. The user has the final responsibility for determining the suitability of the product in a given application.

11/05