

**BHS Marketing**  
*Western Briquette*

**MATERIAL SAFETY DATA SHEET**

**SECTION 1 -- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

MATERIAL NAME: ACESULFAME K  
EU NO: E950  
STANDARD: FCC IV  
CAS NUMBER: 55589-62-3  
SYNONYMS: 6-mythyle -1,2,3-oxathiazine-4(3H)-one-2,2 Dioxide ,  
Potassium Salt.

**SECTION 2 – COMPOSTION /INFORMATION ON INGREDIENTS**

INGREDIENTS NAME: ACESULFAME K  
CAS NUMBER: 55589-62-3  
CONCENTRATION: 99.0 Min

**SECTION 3 - HARZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

Physical state: free flowing crystalline powder.  
Color & odor: white color, odor less.

**DUST EXPLOSION HAZARD**

**POTENTIAL HEALTH EFFECTS**

Relevant Routes of Exposure: inhalation, ingestion, skin contact, and eye contact.  
Target organs: Respiratory system , Gastrointestinal system , renal system ,  
dermal system, Ocular system .

**Acute Effects:**

General: May cause mucous membrane irritation (inflammation).  
May cause gastrointestinal effects such as nausea , vomiting ,  
Diarrhea, constipation, cramps, and loss of appetite.

Skin: May cause skin irritation.

Eye: May cause eye irritation.

**Chronic Effects:**

General: May increase relative disease.

Carcinogenicity: Not listed by NTP, IARC, or OSHA.

Conditions Aggravated: Hemachromatosis, thalassemia, sideroblastic or sickle  
cell anemia .

---

## **SECTION 4 --- FIRST AID MEASURES**

---

Inhalation: Remove to fresh air. Get medical attention. if not breathing ,  
Give artificial respiration. if breathing is difficult , administer  
oxygen by qualified personnel.

Skin Contact: Remove contaminated clothing and shoes. Wash skin with soap  
and plenty of water. If irritation occurs or persists , get medical  
attention. Wash clothing and shoes before reuse.

Eye contact: Immediately flush eyes with plenty of water. If irritation  
occurs or persists, get medical attention .

Ingestion: If large quantities of this material are swallowed , get medical  
Attention immediately. Do not induce vomiting unless directed  
by medical personnel. Never give anything by mouth to an  
unconscious person.

---

## **SECTION 5 ---FIRE AND EXPLOSION HAZARD DATA**

---

Flash point: not applicable

Extinguish media: water spray, carbon dioxide ,and only Tri-class type ABC  
chemical extinguishers

Unusual fire and explosion hazards: dust explosion hazard.

Fire fighting instructions:

Wear NIOSH /MSHA approved positive pressure , self contained breathing apparatus  
and full protective turn out gear. Use water to keep fire exposed containers cool.  
Use caution in approaching fire.

Auto Ignition

Temperature: 1220 F

ST: 1, Eartmann Tube.

---

## **SECTION 6 --- ACCIDENTAL RELEASE MEASURES**

---

**SPILL CLEAN UP:**

Procedures: Review section 3 hazards Identification, and Section 8-Exposure controls  
/ Personal Protection before proceeding with the clean up. Shut off the sources of the  
spill or leak if it is safe to do so. Eliminate possible ignition sources Scoop or shovel  
spilled material into a suitable labeled open head drum. Secure the drum cover and  
move the container to a safe holding area. Clean spill area thoroughly.

Treatment and Disposal: Dispose of in accordance with recommendations in section  
13 Disposal considerations.

Reporting Requirement: not applied.

---

---

## **SECTION 7 --- HANDLING AND STORAGE**

---

Storage Temperature

(Min/max ): < 25 Deg C

Shelf Life: 3 years

Special Sensitivity: Do not heat above 100 degrees C , Light , Moisture,  
Heat.

Handling & Storage Precautions:

Do not generate dust or expose to ignition sources. Ground and bond all transfer equipment. Milling /Mixing /Drying should be performed in devices equipped with explosion relief or suppression systems or under inner conditions.

Use with adequate ventilation.

Avoid contact with eyes, skin and clothing. Avoid breathing dust

When handling, use proper personal protective equipment specified in section 8.

Wash thoroughly after handling.

Keep container tightly closed when not in use.

Store out of direct sunlight in a cool, well-ventilated area.

---

## **SECTION 8 --- EXPOSURE CONTROLS / PERSONAL PROTECTION.**

---

### **ENGINEERING CONTROL**

Ventilation: General room ventilation is adequate unless the process generate  
Airborne dust or fume.

### **PERSONAL PROTECTION**

Respiration Types(s): Disposable, Nontoxic dust/Mist Filter.

Conditions for use: Under normal conditions of use , respiratory protection is recommended  
Under excessively dusty conditions.

Glove materials: Any plastic or rubber glove.

Conditions for use: Gloves are recommended if there is a potential for skin contact

Skin Protection: Use protective clothing ( disposable coveralls, lab coats, etc . ) in both  
Production and laboratory areas.

Eye Protection: Safety glasses required, Safety goggles recommended.

### **OTHER CONTROL MEASURES**

Additional:

Protective measures: Provide safety showers and eyewash stations in the work area.

Prevent the accumulation of dust in the work area by thorough

Periodic cleaning of the area.

### **EXPOSURE LIMITS**

There are no exposure limits specified either for these materials or for any of its ingredients.

---

---

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

---

Physical state: Free flowing crystalline powder.

Color: White color.

Odor: odorless

Molecular weight: 201.24

Chemical Formula:  $C_4H_4KNO_4 S$

Pure/Mixture: Pure

PE Value: 1 in 100 solution as: 6.5 – 7.5.

Solubility in H<sub>2</sub>O: Appreciably free soluble.

Solubility others: Slightly soluble in ethanol.

---

---

## **SECTION 10 --- STABILITY AND REACTIVITY.**

---

Stability: Normally stable eve under fir exposure conditions  
and hot water reactive.

Conditions to avoid: Temperatures : > 100 C

Humidity.

Incompatibility:

Material to avoid: Strong acids and other metal like Aluminum , Iron, Zinc,  
Copper, potassium bromate , potassium nitrate ,etc.

Decomposition:

Products: Carbon Dioxide, carbon monoxide, etc.

Decomposition

Temperature: 190 C

Polymerization: No

Condition of Polymerization: will not occur.

---

---

## **SECTION 11 --- TOXICOLOGICAL INFORMATION**

---

Currently research classified that this material is of practically of non toxic to the oral, the eyes, the skin as well as the whole gestation under the study condition utilized till now.

---

---

## **SECTION 12 --- ECOLOGICAL INFORMATION**

---

Not specified in details but referred as per in specification attached.

---

---

---

**SECTION 13 ---DISPOSAL CONSIDERATIONS**

---

**DISPOSAL RECOMMENDATIONS:**

This material is suitable for incineration. These recommendations are based on the product as shipped. Use, processing, alteration or contamination may affect these disposal recommendations. State, Local or site restrictions affecting the available proper disposal options may vary.

RCRA Waste #: Not regulated under RCRA.

Empty Containers: Empty containers must be triple rinsed prior to disposal, recycling or reused.

---

---

**SECTION 14 ---TRANSPORTATION INFORMATION**

---

Enforcement agency: China of Transportation.

Country / Community: China

Proper ship Name: Not regulated

Proper air name: Not regulated.

---

---

**SECTION 15 ---REGULATORY INFORMATION**

---

Law /Regulation: Hazardous chemical reporting.

Enforcement agency: Environmental Protection Agency.

Governing Authority : China

Criteria Met: Acute , Fire

---

---

**SECTION 16 --- OTHER INFORMATION**

---

Additional Information: Health, Fire , Reactivity

Approval Information

Approval date: 8/10 /94

---